Appendix B: Test Data for E-UTRA Band 2

Product Name: 4G Router/4G LTE/Wireless Router
Trade Mark: TODAAIR
Test Model: TD954G2

Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Tom.Liu

B.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.73	21.55	PASS
		1	3	22.86	21.66	PASS
		1	5	22.78	21.66	PASS
		3	0	22.72	21.81	PASS
		3	2	22.74	21.90	PASS
		3	3	22.71	21.84	PASS
		6	0	21.61	20.57	PASS
	MCH	1	0	22.73	22.20	PASS
		1	3	22.86	22.33	PASS
		1	5	22.85	22.17	PASS
		3	0	23.05	22.10	PASS
		3	2	23.00	22.13	PASS
		3	3	22.87	21.81	PASS
		6	0	21.92	20.97	PASS
	HCH	1	0	22.63	21.51	PASS
		1	3	22.68	21.60	PASS
		1	5	22.33	21.42	PASS
		3	0	22.77	21.45	PASS
		3	2	22.50	21.53	PASS
		3	3	22.34	21.47	PASS
		6	0	21.86	20.88	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.90	22.34	PASS
		1	7	22.96	22.32	PASS
		1	14	22.90	21.85	PASS
		8	0	21.87	20.66	PASS
		8	4	21.88	20.69	PASS
		8	7	21.72	20.88	PASS
		15	0	21.76	20.64	PASS
	MCH	1	0	22.89	22.41	PASS
		1	7	22.86	22.57	PASS
		1	14	22.89	22.22	PASS
		8	0	21.89	21.04	PASS
		8	4	21.92	21.07	PASS
		8	7	21.95	21.08	PASS
		15	0	21.95	20.96	PASS
	HCH	1	0	22.89	22.19	PASS
		1	7	22.78	22.15	PASS
		1	14	21.91	21.40	PASS
		8	0	21.82	20.84	PASS
		8	4	21.75	20.67	PASS
		8	7	21.76	20.55	PASS
		15	0	21.80	20.82	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.77	22.11	PASS
		1	12	22.84	22.22	PASS
		1	24	22.56	21.96	PASS
		12	0	21.82	21.04	PASS
		12	6	21.90	21.03	PASS
		12	13	21.78	20.91	PASS
		25	0	21.80	20.93	PASS
	MCH	1	0	22.70	21.90	PASS
		1	12	23.02	22.23	PASS
		1	24	22.89	22.13	PASS
		12	0	21.85	21.18	PASS
		12	6	21.94	21.19	PASS
		12	13	21.84	21.09	PASS
		25	0	21.88	20.94	PASS
	HCH	1	0	22.78	21.05	PASS
		1	12	23.23	21.31	PASS
		1	24	21.81	20.71	PASS
		12	0	21.80	20.93	PASS
		12	6	21.78	20.86	PASS
		12	13	21.62	20.71	PASS
		25	0	21.80	20.85	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.00	22.59	PASS
		1	24	23.16	22.86	PASS
		1	49	22.32	21.67	PASS
		25	0	21.87	20.96	PASS
		25	12	21.90	20.99	PASS
		25	25	21.82	20.87	PASS
		50	0	21.88	20.88	PASS
	MCH	1	0	22.11	21.52	PASS
		1	24	23.81	23.19	PASS
		1	49	22.76	22.04	PASS
		25	0	21.96	20.85	PASS
		25	12	22.07	21.15	PASS
		25	25	21.86	20.96	PASS
		50	0	21.98	21.10	PASS
	HCH	1	0	21.64	21.13	PASS
		1	24	22.71	22.22	PASS
		1	49	21.21	21.75	PASS
		25	0	21.61	20.72	PASS
		25	12	22.56	20.85	PASS
		25	25	21.83	20.74	PASS
		50	0	21.75	20.84	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.89	22.60	PASS
		1	37	23.25	22.61	PASS
		1	74	22.72	21.12	PASS
		37	0	21.93	21.00	PASS
		37	18	21.97	21.06	PASS
		37	38	21.99	20.91	PASS
		75	0	21.98	21.01	PASS
	MCH	1	0	22.73	22.09	PASS
		1	37	23.79	23.16	PASS
		1	74	22.83	22.04	PASS
		37	0	22.01	21.11	PASS
		37	18	22.10	21.27	PASS
		37	38	21.97	21.09	PASS
		75	0	21.99	21.11	PASS
	HCH	1	0	21.09	20.50	PASS
		1	37	21.70	21.16	PASS
		1	74	21.15	20.61	PASS
		37	0	21.09	20.26	PASS
		37	18	21.68	20.84	PASS
		37	38	22.24	21.36	PASS
		75	0	21.61	20.76	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.82	21.77	PASS
		1	49	22.85	21.99	PASS
		1	99	21.19	20.36	PASS
		50	0	22.09	20.99	PASS
		50	25	22.06	21.19	PASS
		50	50	22.00	20.95	PASS
		100	0	21.96	21.07	PASS
	MCH	1	0	21.89	20.37	PASS
		1	49	23.12	21.45	PASS
		1	99	22.63	20.94	PASS
		50	0	21.90	20.81	PASS
		50	25	22.13	21.11	PASS
		50	50	21.97	20.89	PASS
		100	0	21.96	20.97	PASS
	HCH	1	0	22.11	21.51	PASS
		1	49	21.23	20.58	PASS
		1	99	20.79	20.20	PASS
		50	0	21.42	20.55	PASS
		50	25	21.26	20.40	PASS
		50	50	21.61	20.76	PASS
		100	0	21.47	20.60	PASS

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B.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.08	<13	PASS
	MCH	5.22	<13	PASS
	HCH	4.99	<13	PASS
16QAM	LCH	5.81	<13	PASS
	MCH	6.03	<13	PASS
	HCH	5.81	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.11	<13	PASS
	MCH	5.21	<13	PASS
	HCH	5.07	<13	PASS
16QAM	LCH	5.93	<13	PASS
	MCH	6.11	<13	PASS
	HCH	5.93	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.11	<13	PASS
	MCH	5.23	<13	PASS
	HCH	5.03	<13	PASS
16QAM	LCH	5.87	<13	PASS
	MCH	6.04	<13	PASS
	HCH	5.93	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.14	<13	PASS
	MCH	5.12	<13	PASS
	HCH	5.11	<13	PASS
16QAM	LCH	5.92	<13	PASS
	MCH	5.96	<13	PASS
	HCH	5.94	<13	PASS

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Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.91	<13	PASS
	MCH	4.89	<13	PASS
	HCH	5.28	<13	PASS
16QAM	LCH	6.13	<13	PASS
	MCH	6.17	<13	PASS
	HCH	6.32	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.74	<13	PASS
	MCH	5.7	<13	PASS
	HCH	5.84	<13	PASS
16QAM	LCH	6.76	<13	PASS
	MCH	6.73	<13	PASS
	HCH	6.77	<13	PASS

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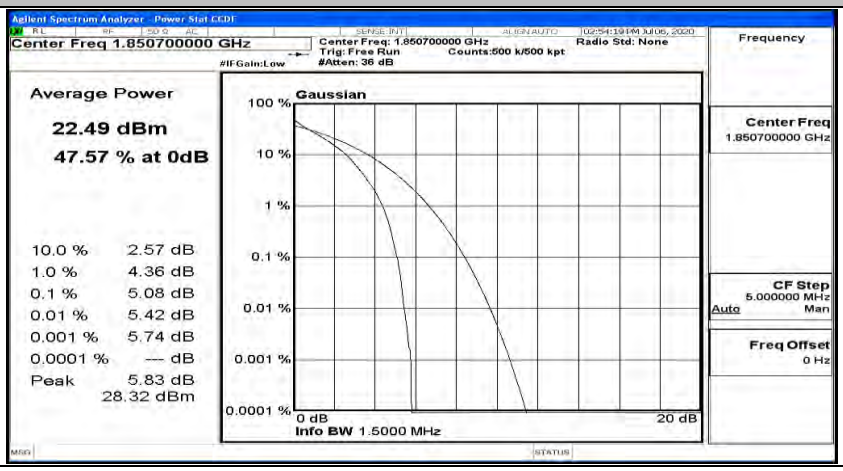
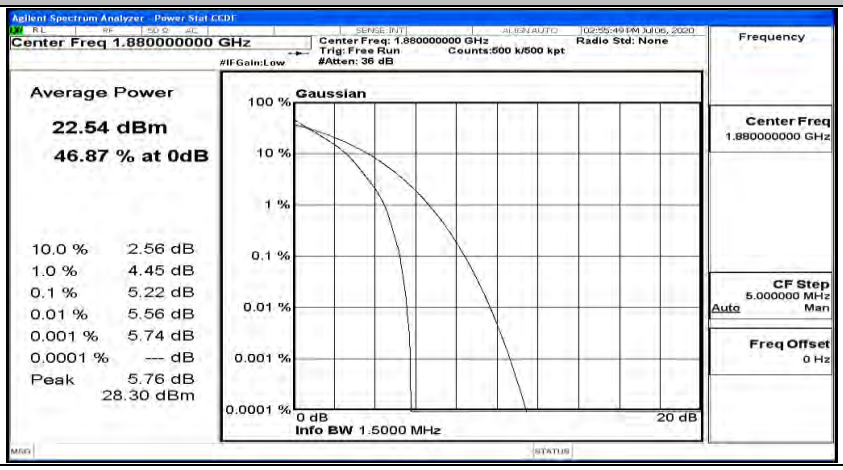
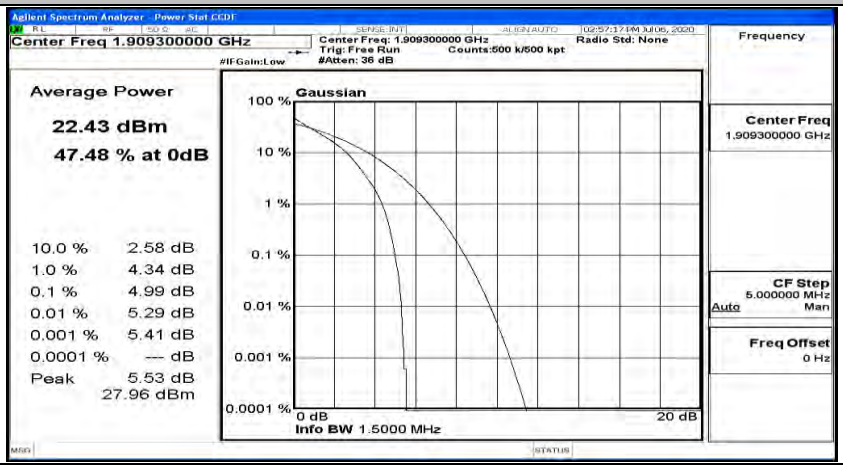
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



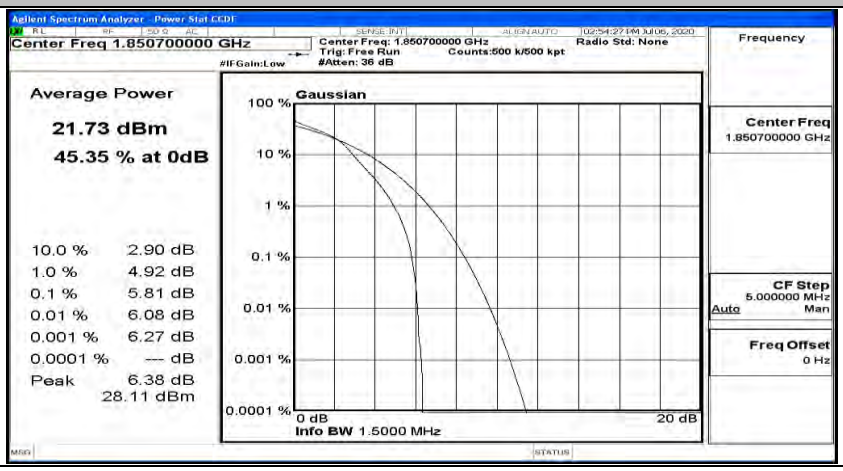
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



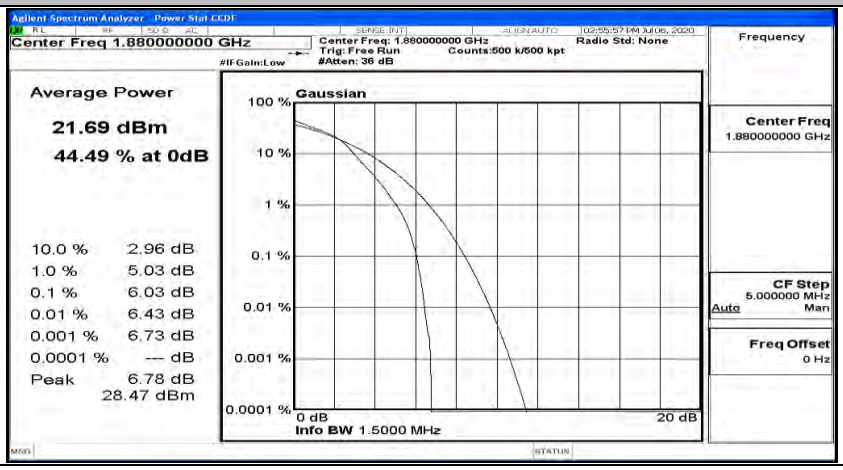
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



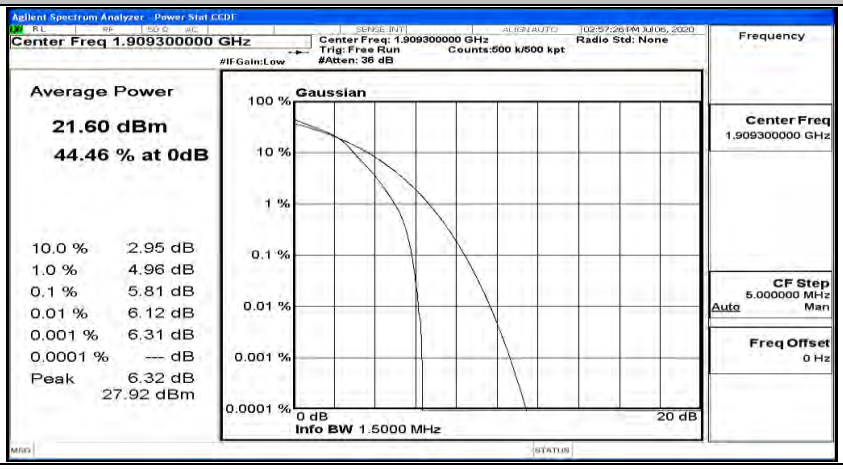
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



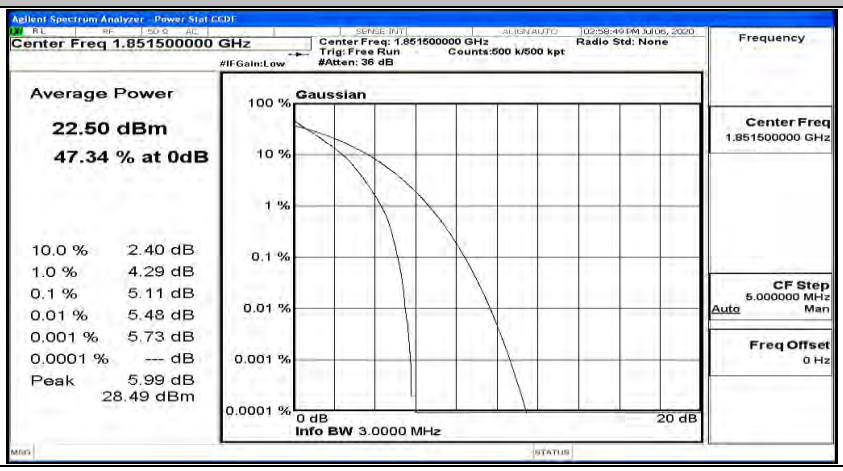
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



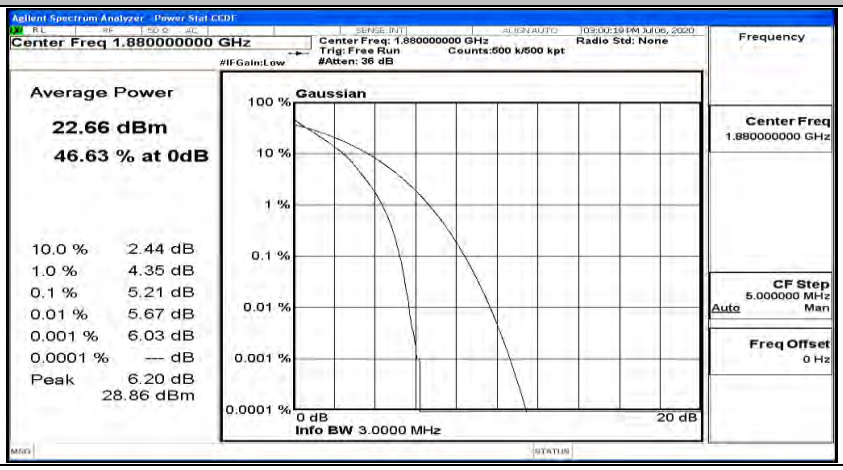
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



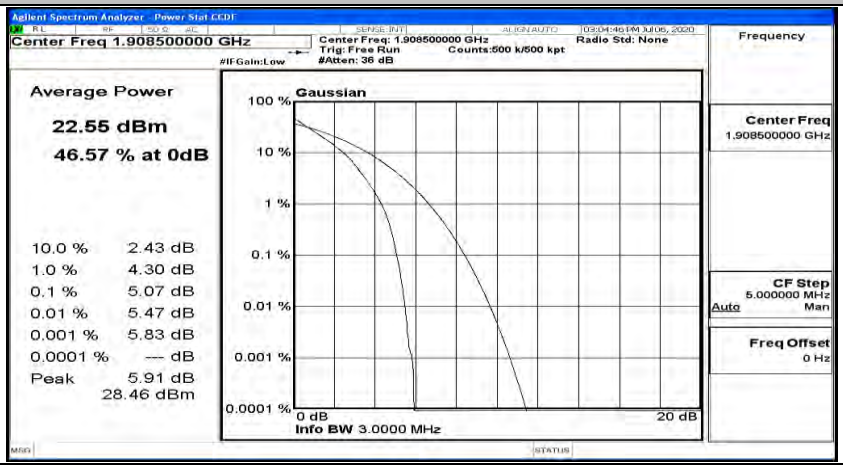
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



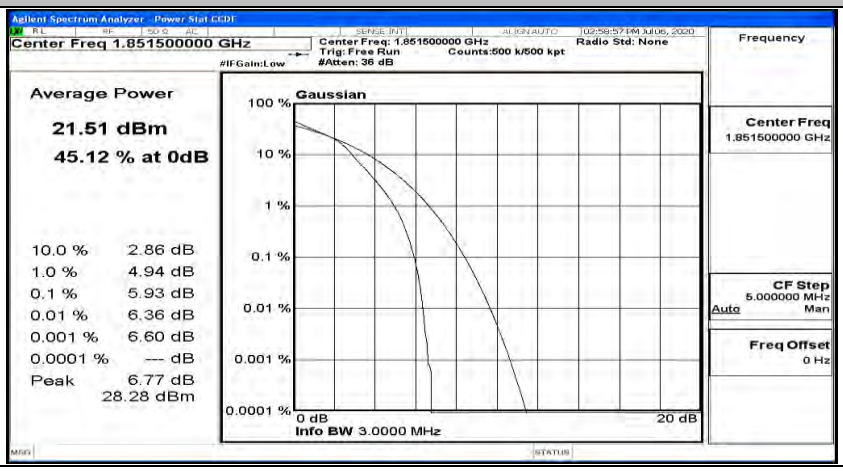
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



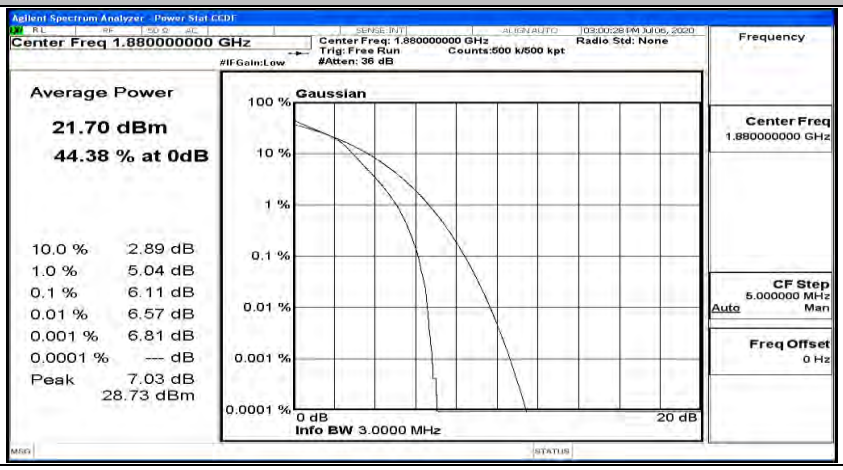
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



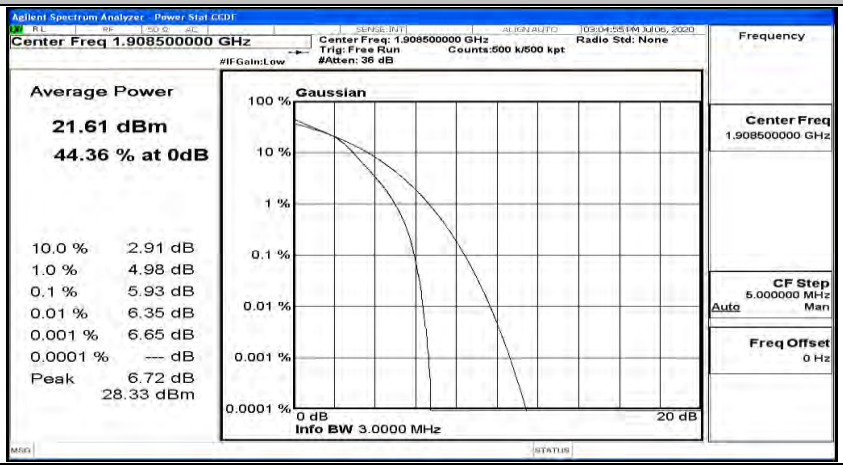
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



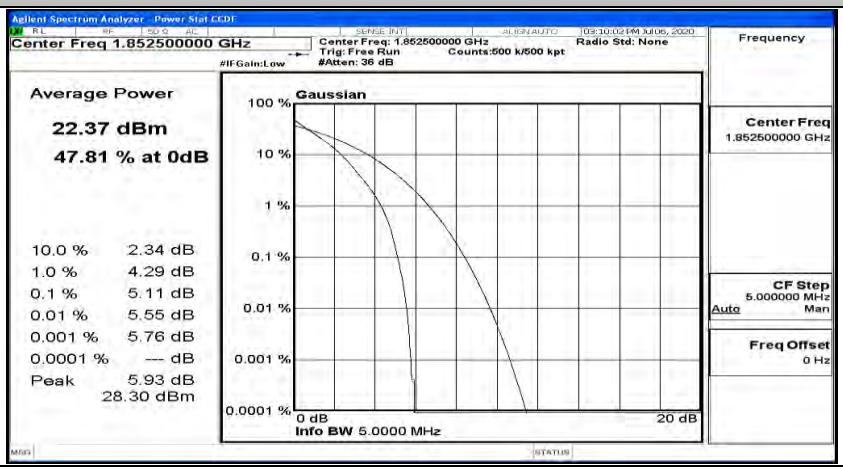
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



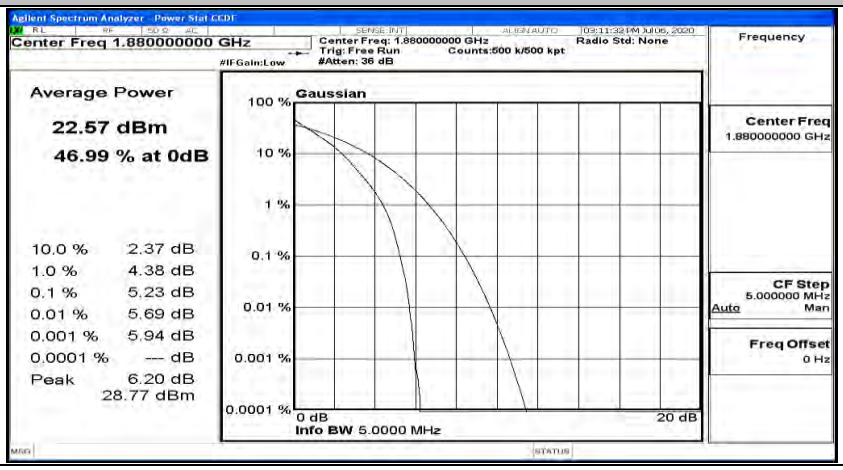
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



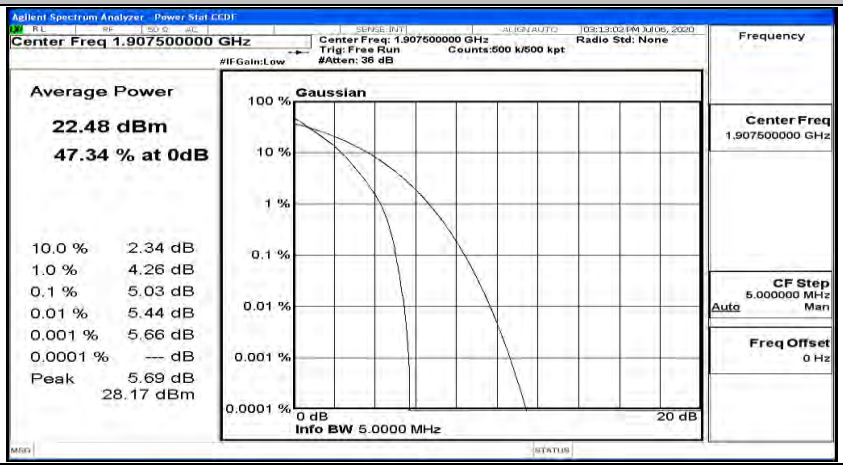
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



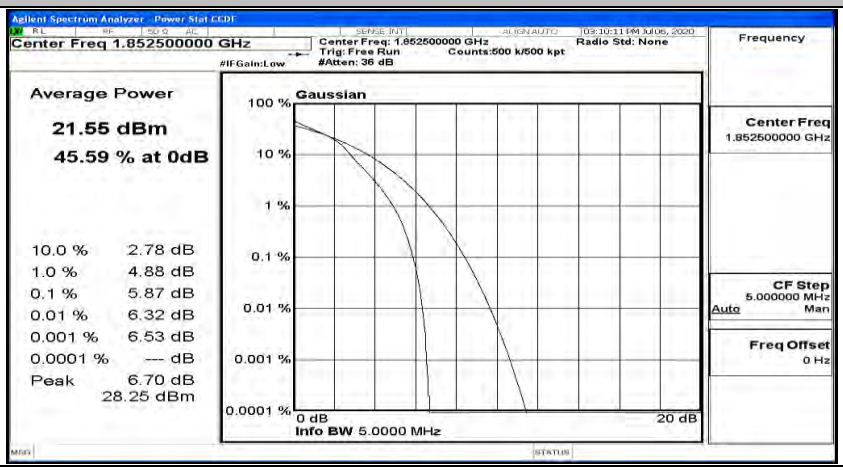
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



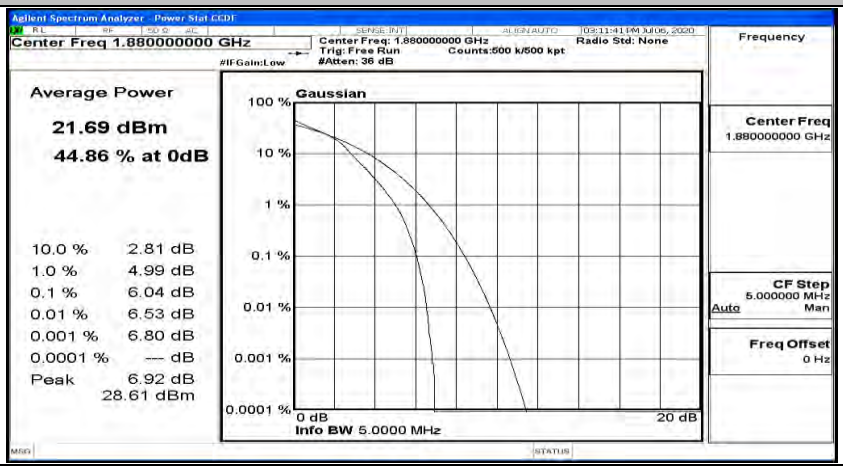
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



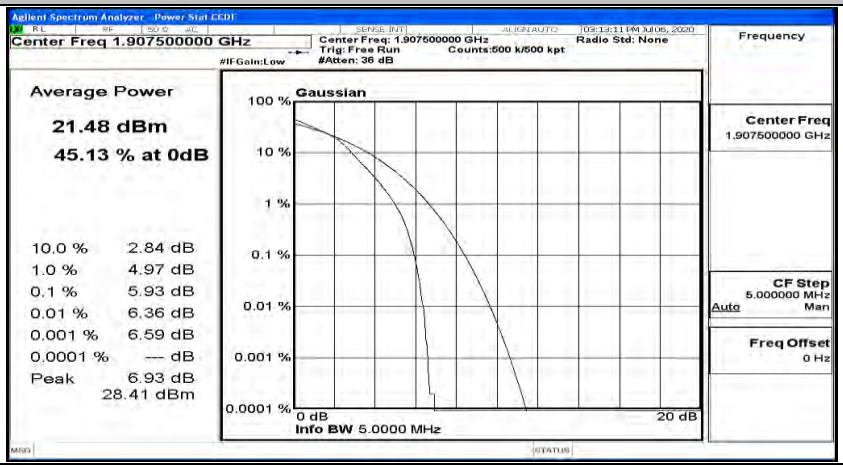
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



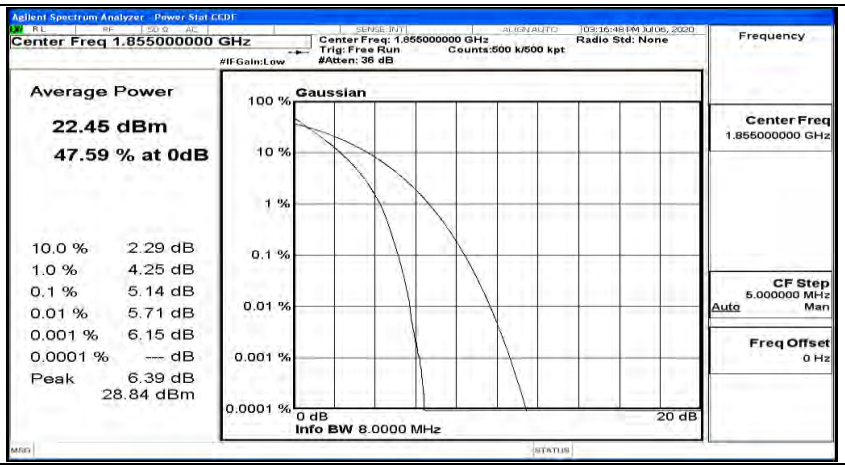
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



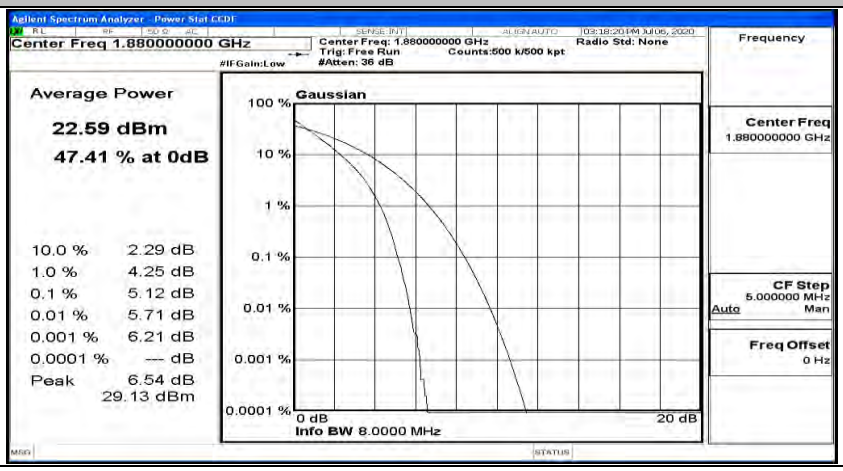
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



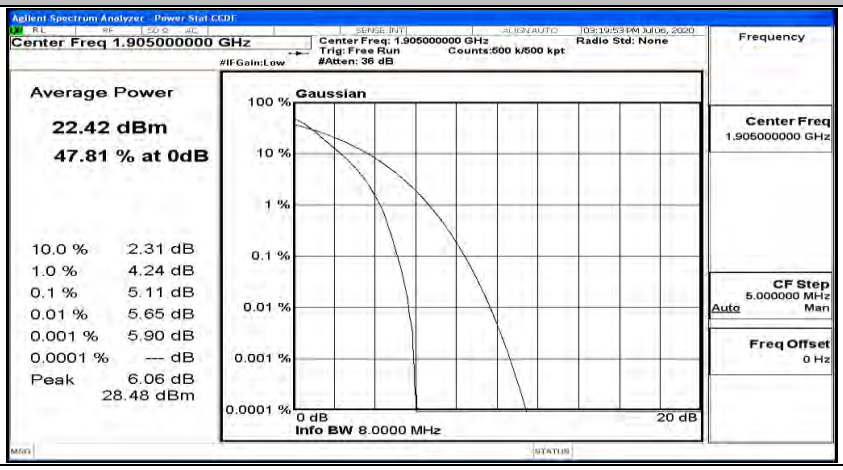
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK


Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.855000000 GHz
Center Freq: 1.855000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
Frequency
Average Power
22.45 dBm
47.59 % at 0dB
10.0 % 2.29 dB
1.0 % 4.25 dB
0.1 % 5.14 dB
0.01 % 5.71 dB
0.001 % 6.15 dB
0.0001 % --- dB
Peak 6.39 dB
28.84 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 8.0000 MHz
Center Freq
1.855000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

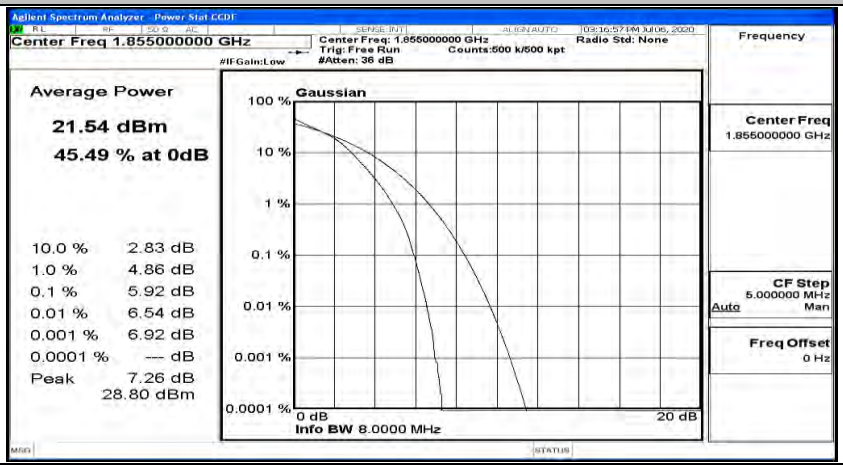
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



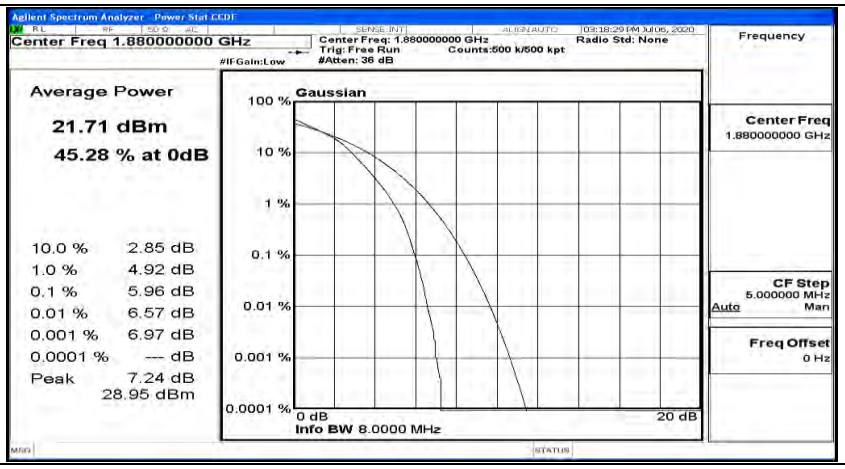
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



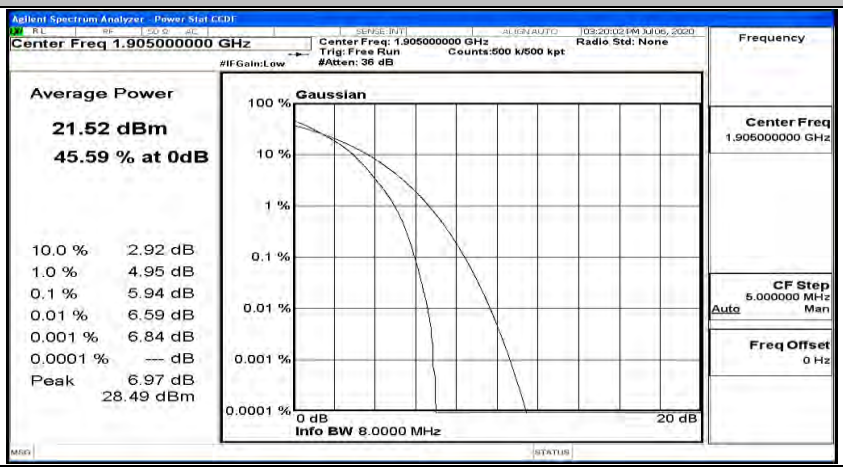
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



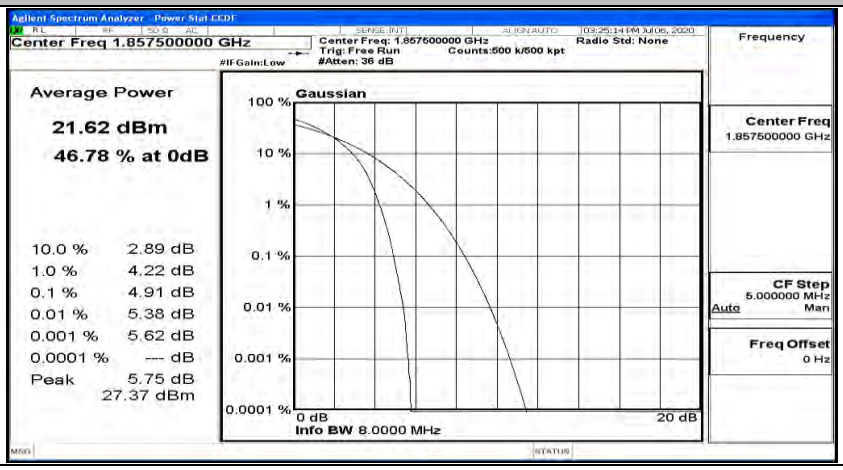
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM


Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.880000000 GHz
Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
Frequency
Average Power
21.71 dBm
45.28 % at 0dB
10.0 % 2.85 dB
1.0 % 4.92 dB
0.1 % 5.96 dB
0.01 % 6.57 dB
0.001 % 6.97 dB
0.0001 % --- dB
Peak 7.24 dB
28.95 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 8.0000 MHz
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

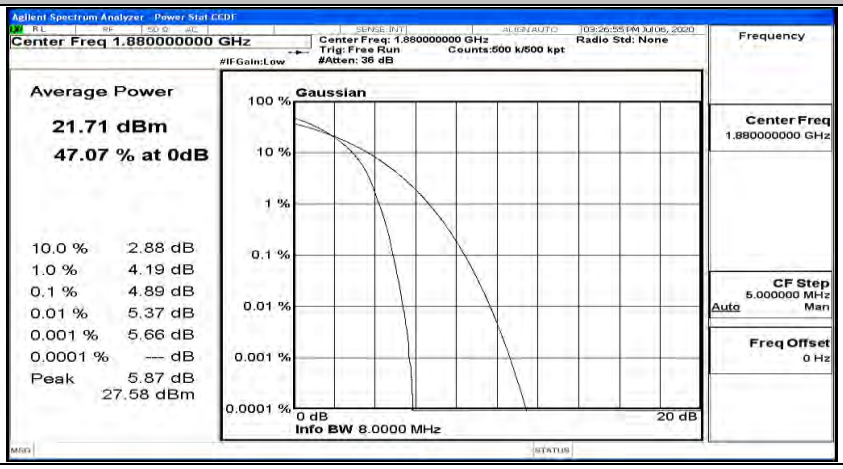
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



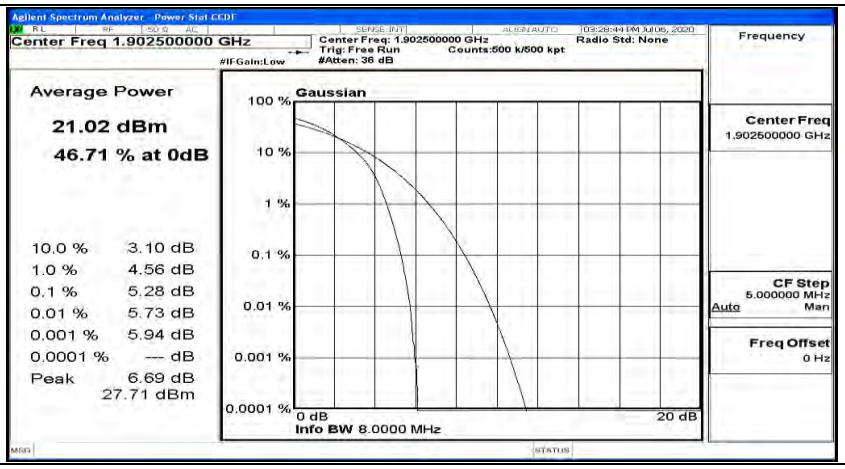
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



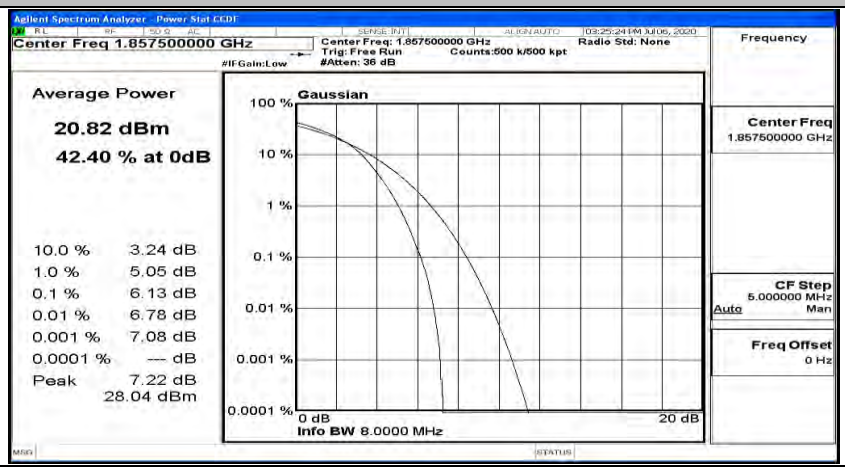
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



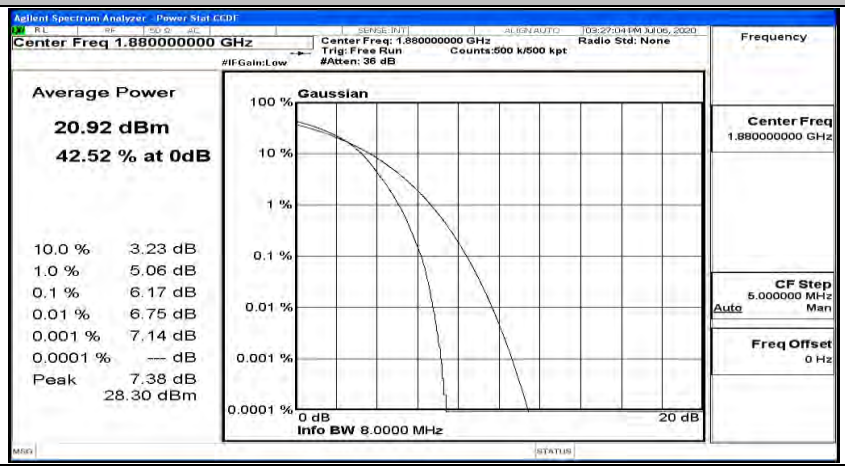
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK


Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.902500000 GHz
Center Freq: 1.902500000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
Frequency
Average Power
21.02 dBm
46.71 % at 0dB
10.0 % 3.10 dB
1.0 % 4.56 dB
0.1 % 5.28 dB
0.01 % 5.73 dB
0.001 % 5.94 dB
0.0001 % --- dB
Peak 6.69 dB
27.71 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 8.0000 MHz
Center Freq
1.902500000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

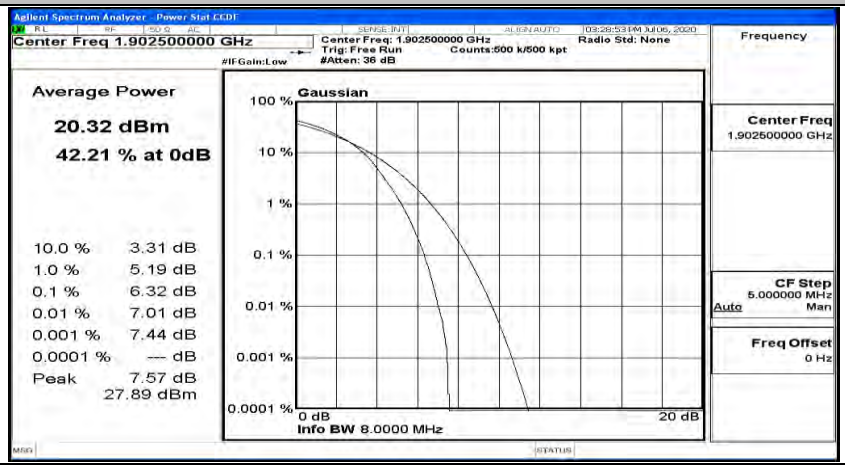
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



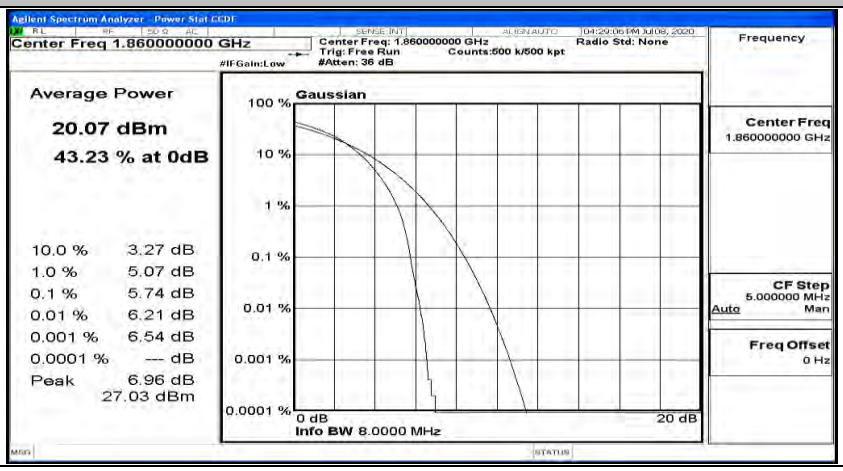
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



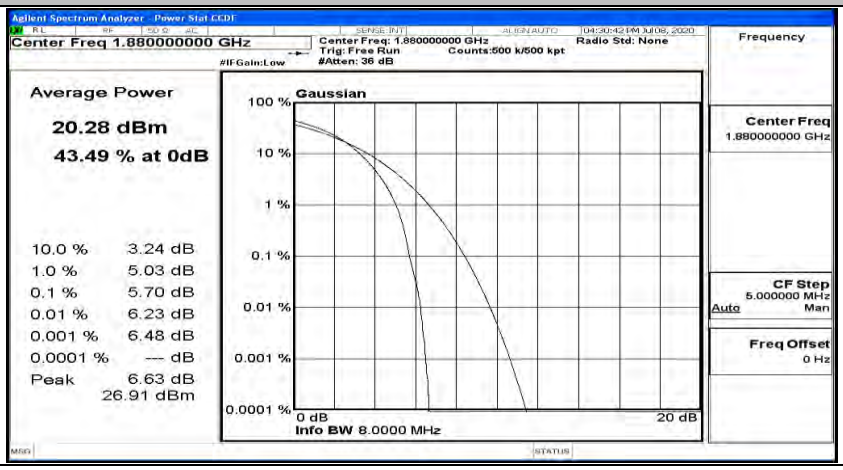
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



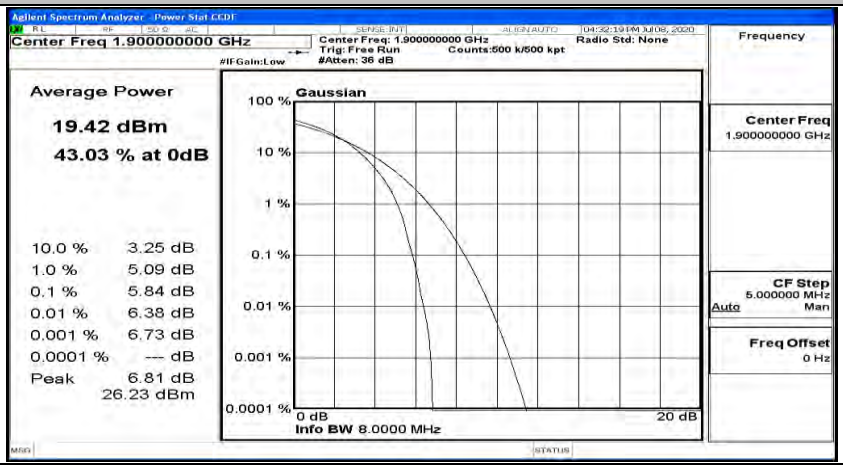
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



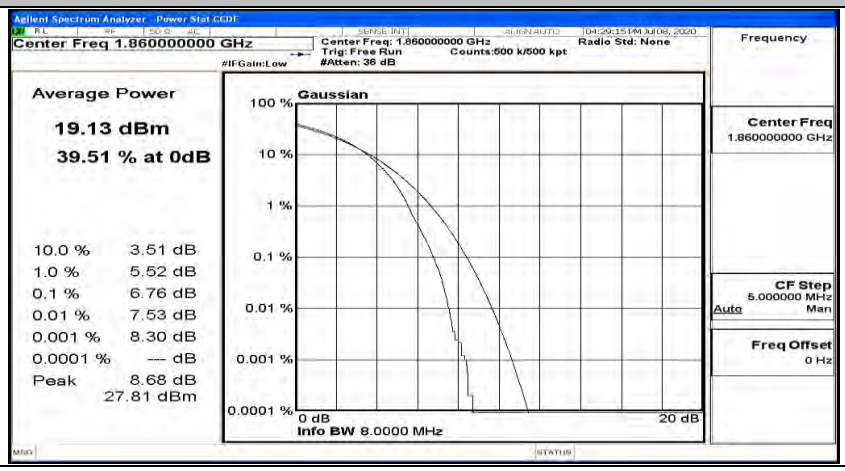
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



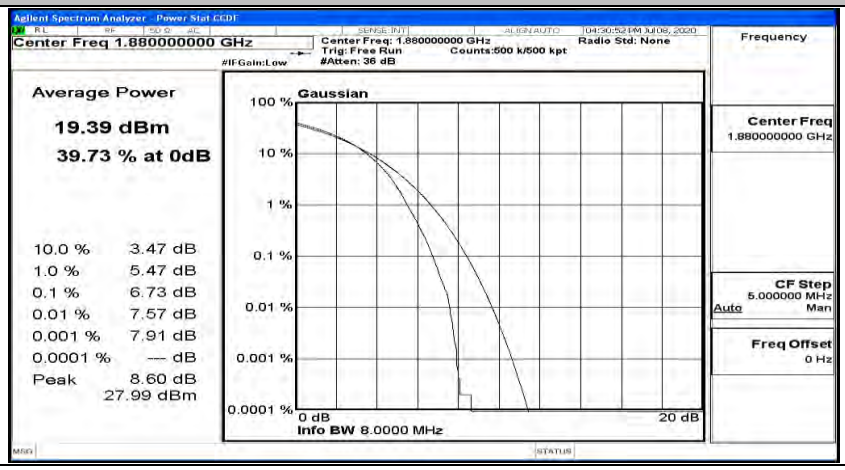
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



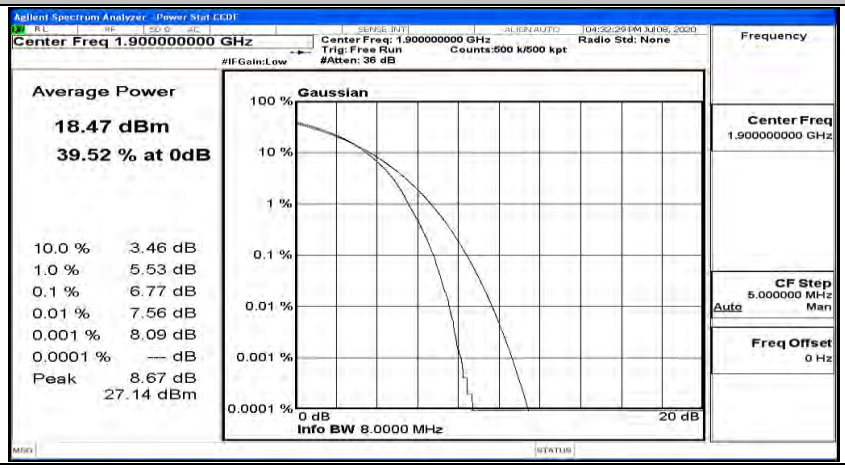
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



B.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0774	1.237	PASS
	MCH	1.0759	1.203	PASS
	HCH	1.0789	1.227	PASS
16QAM	LCH	1.0798	1.240	PASS
	MCH	1.0786	1.236	PASS
	HCH	1.0762	1.238	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6798	2.886	PASS
	MCH	2.6836	2.883	PASS
	HCH	2.6814	2.898	PASS
16QAM	LCH	2.6883	2.902	PASS
	MCH	2.6807	2.888	PASS
	HCH	2.6806	2.897	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4824	4.801	PASS
	MCH	4.4713	4.759	PASS
	HCH	4.4691	4.788	PASS
16QAM	LCH	4.4662	4.833	PASS
	MCH	4.4704	4.833	PASS
	HCH	4.4709	4.780	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9284	9.437	PASS
	MCH	8.9219	9.465	PASS
	HCH	8.9051	9.461	PASS
16QAM	LCH	8.9154	9.373	PASS
	MCH	8.9121	9.481	PASS
	HCH	8.9023	9.333	PASS

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EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.371	14.09	PASS
	MCH	13.361	13.98	PASS
	HCH	13.389	14.05	PASS
16QAM	LCH	13.377	14.00	PASS
	MCH	13.366	13.96	PASS
	HCH	13.393	13.98	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.809	18.54	PASS
	MCH	17.810	18.55	PASS
	HCH	17.861	18.61	PASS
16QAM	LCH	17.824	18.59	PASS
	MCH	17.794	18.55	PASS
	HCH	17.854	18.67	PASS

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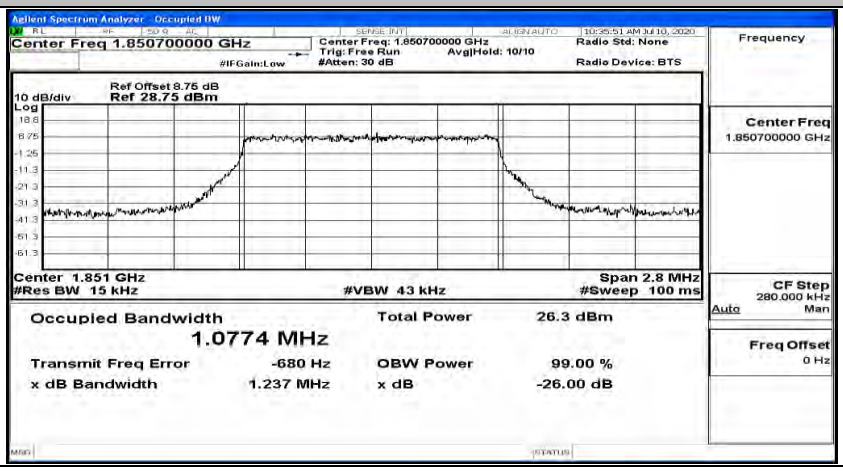
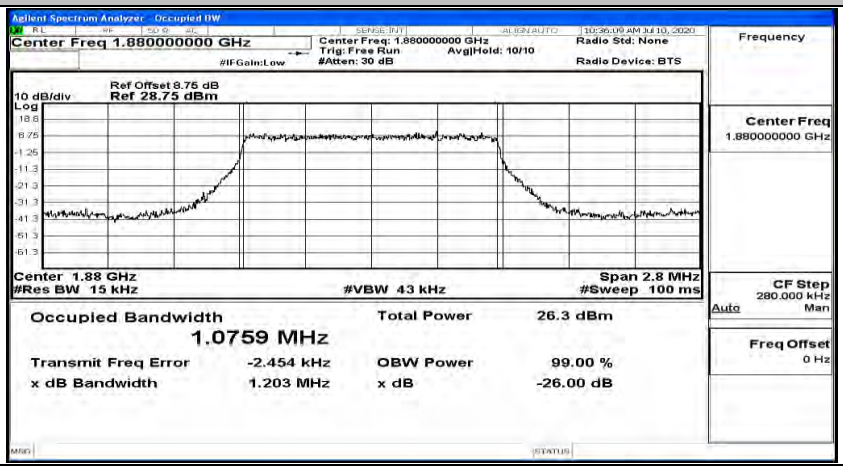
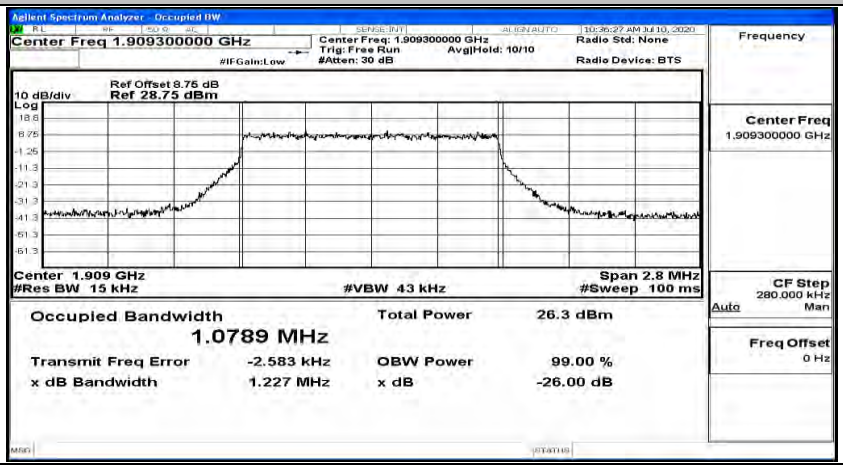
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



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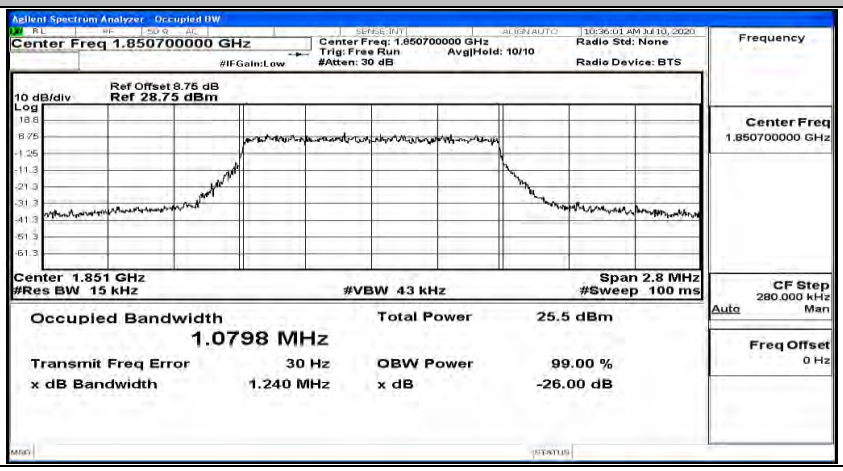
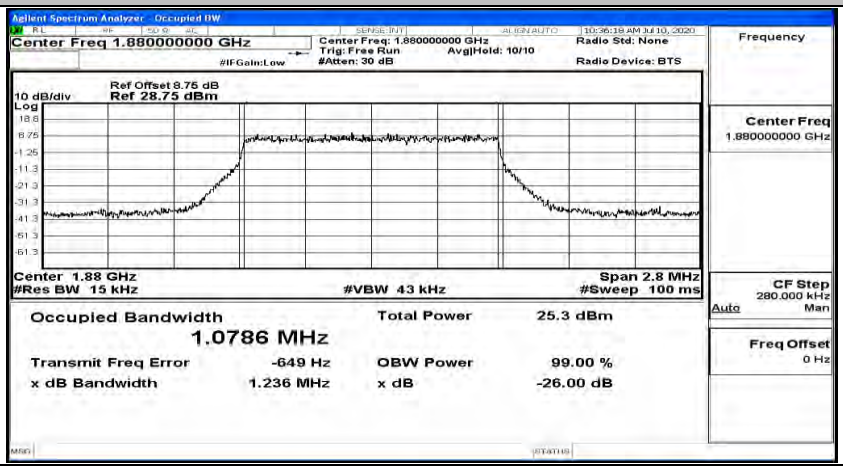
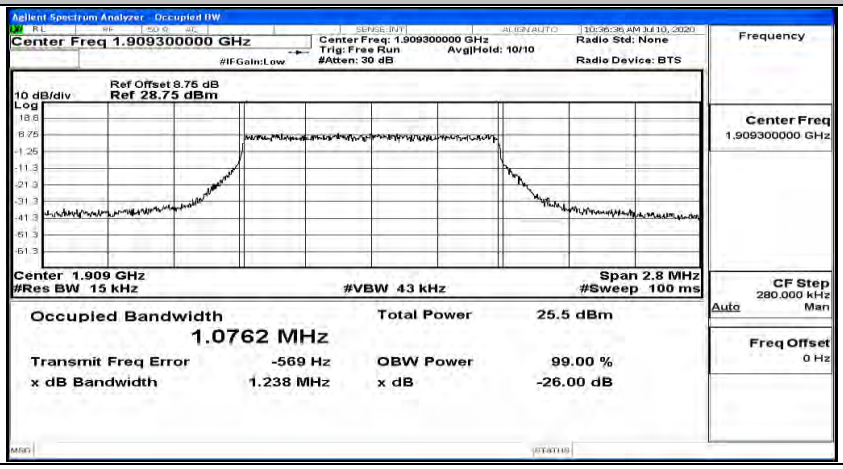
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



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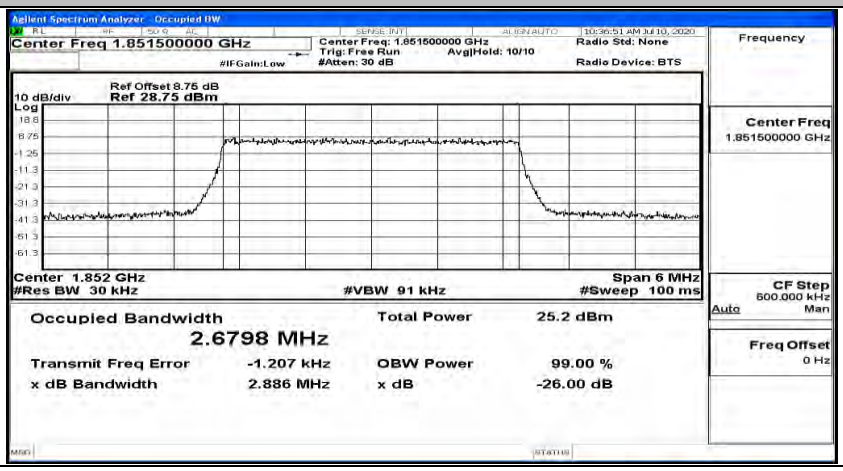
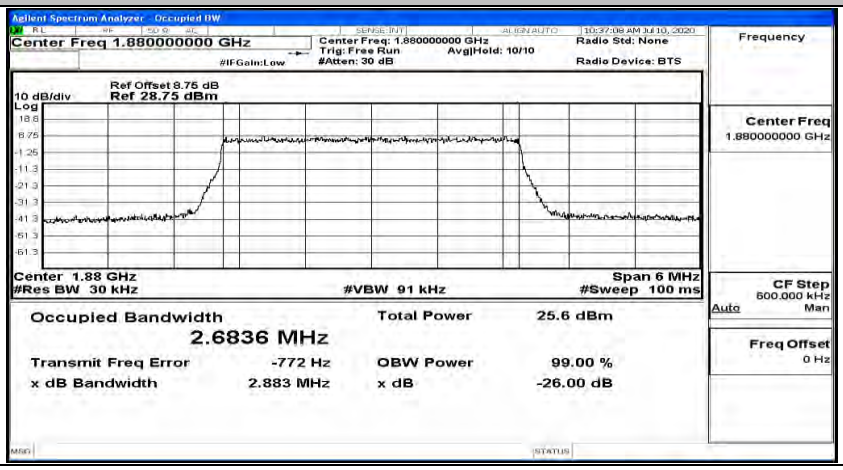
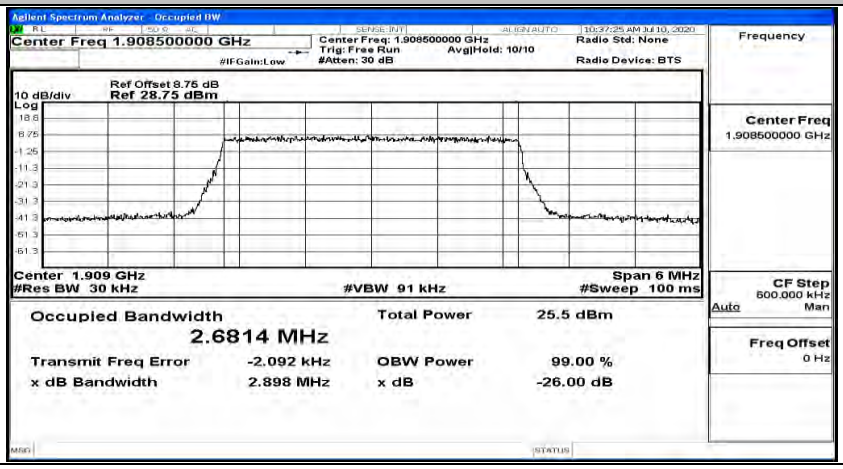
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



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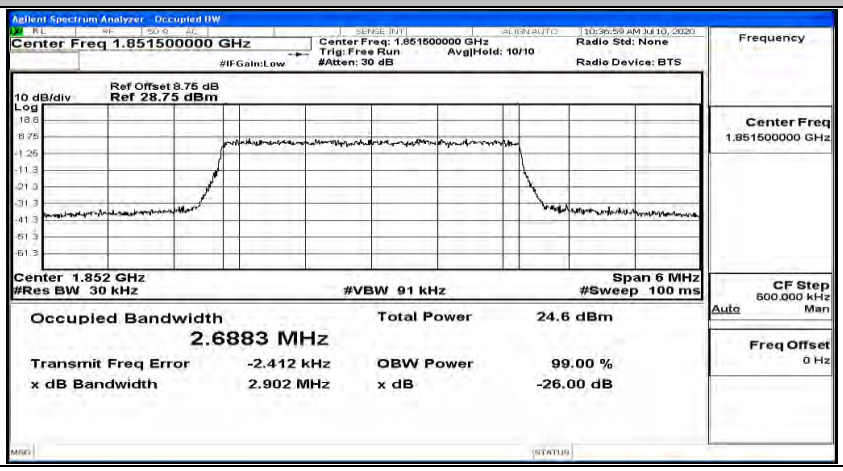
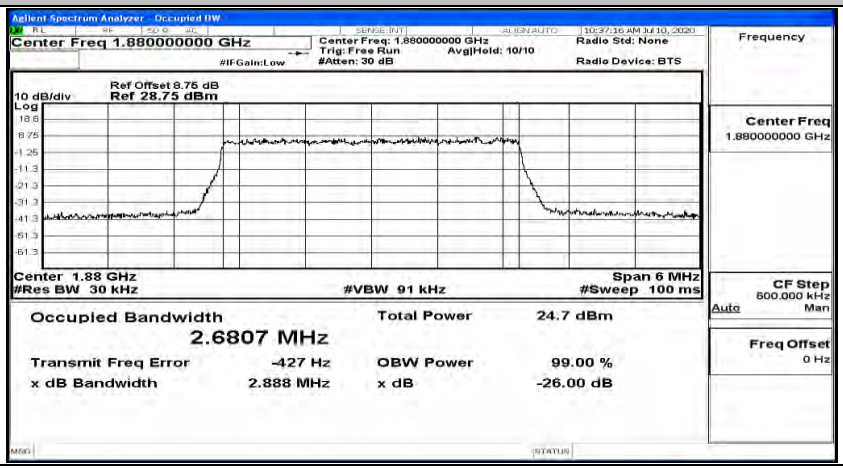
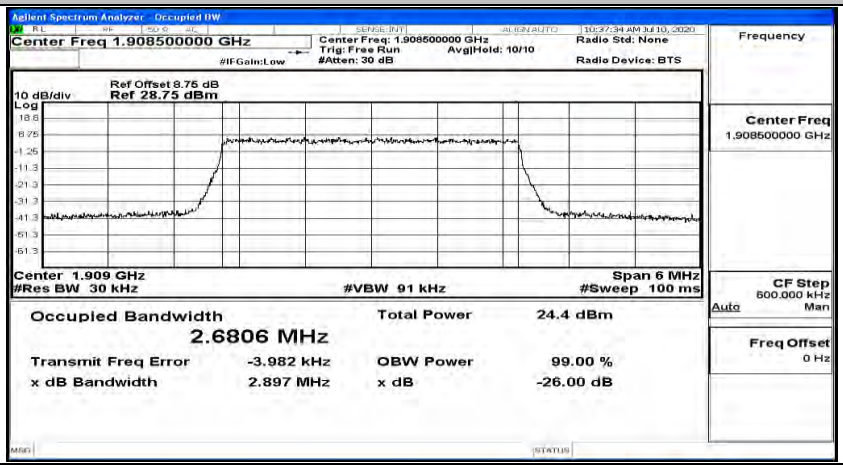
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



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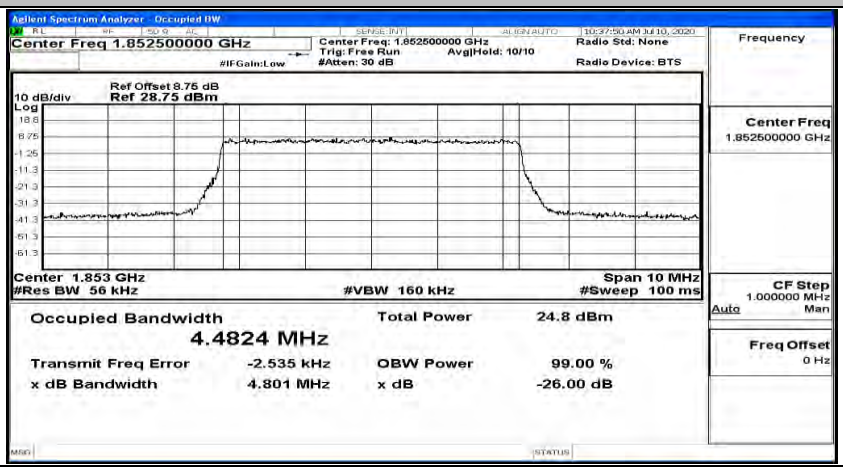
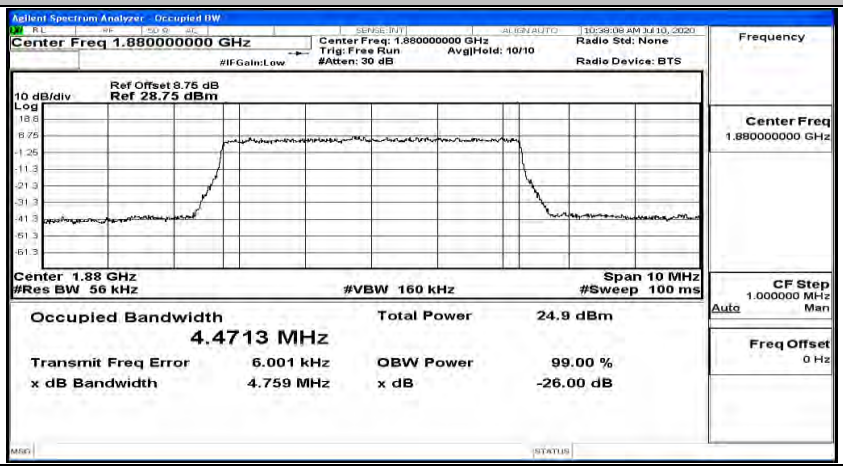
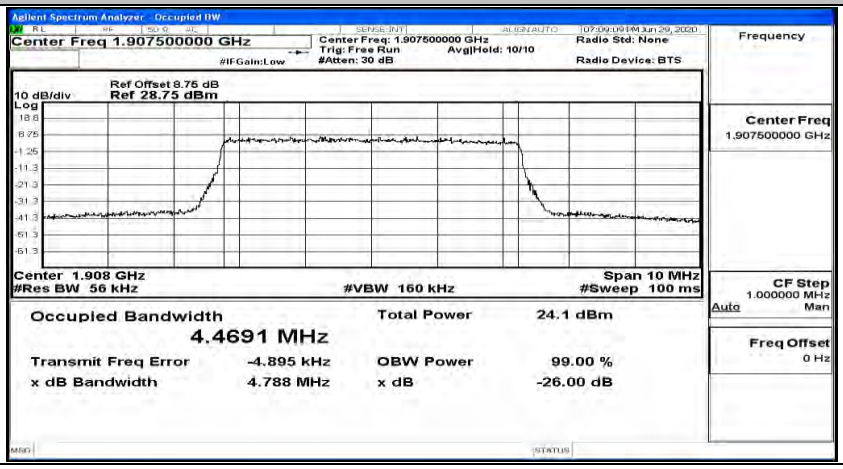
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



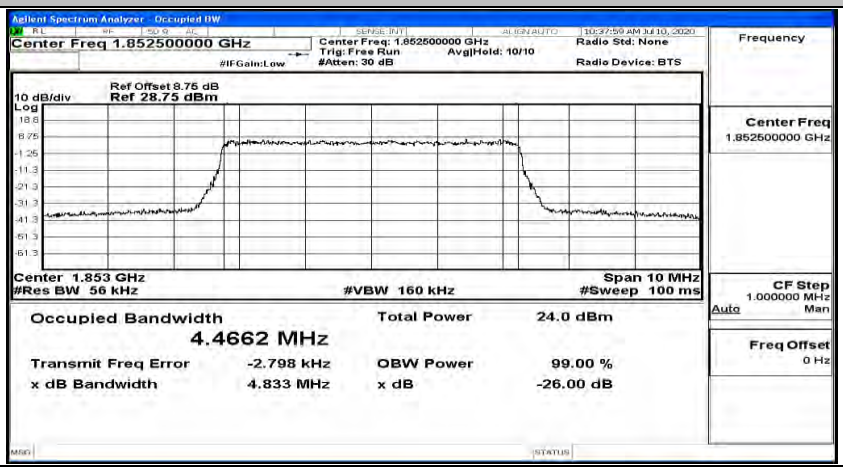
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



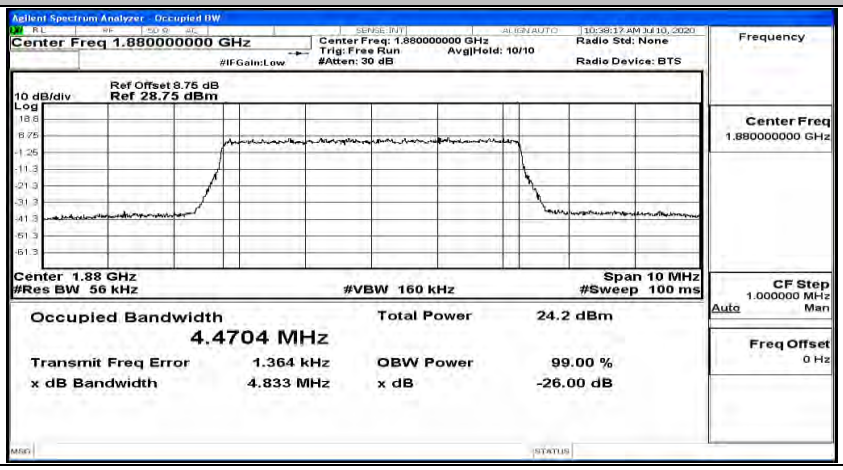
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



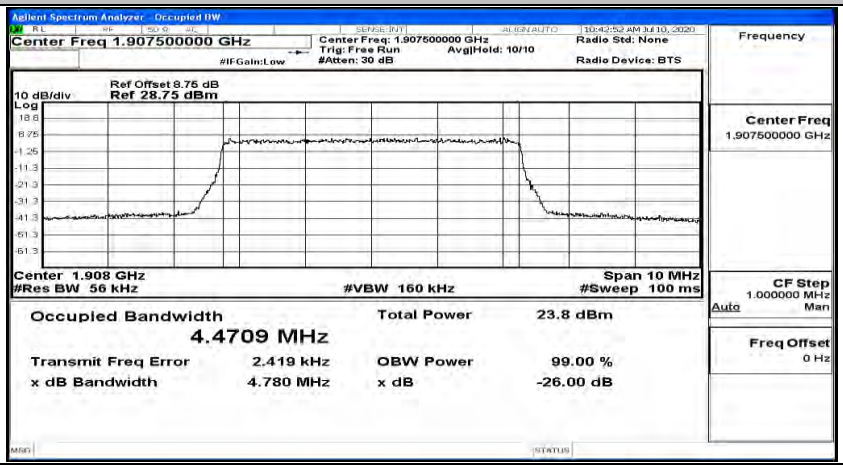
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



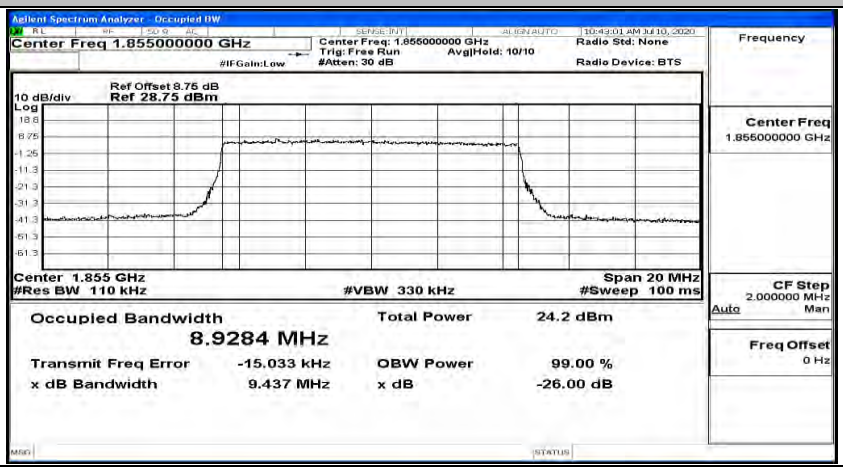
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



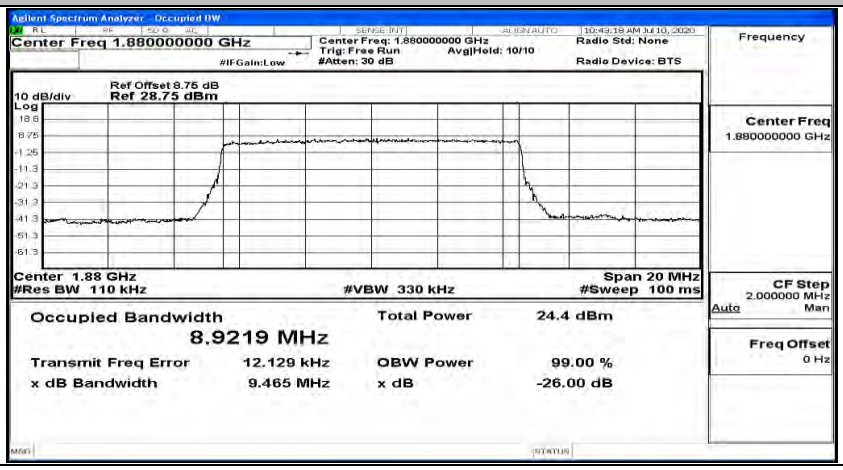
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



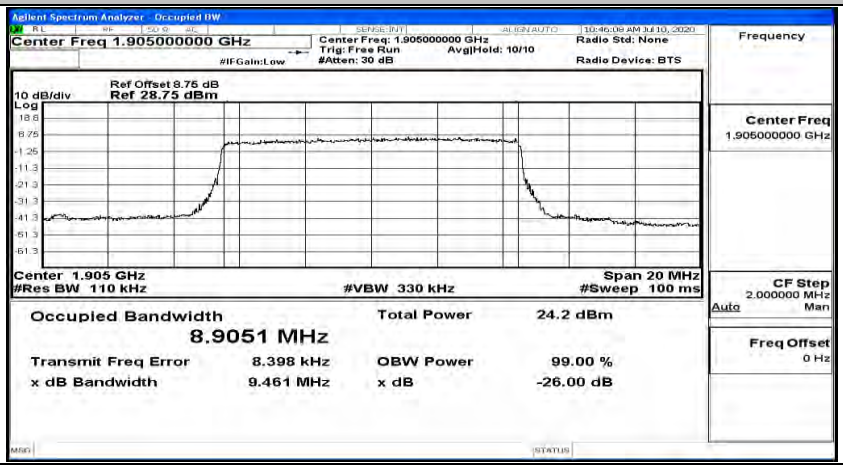
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



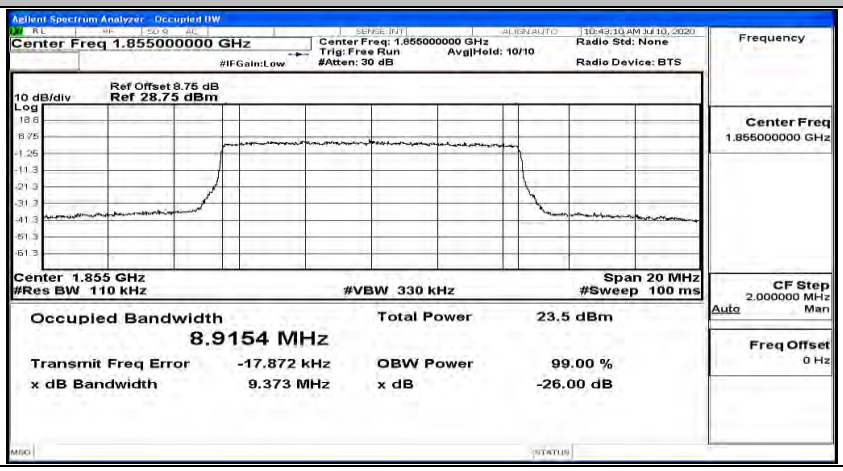
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



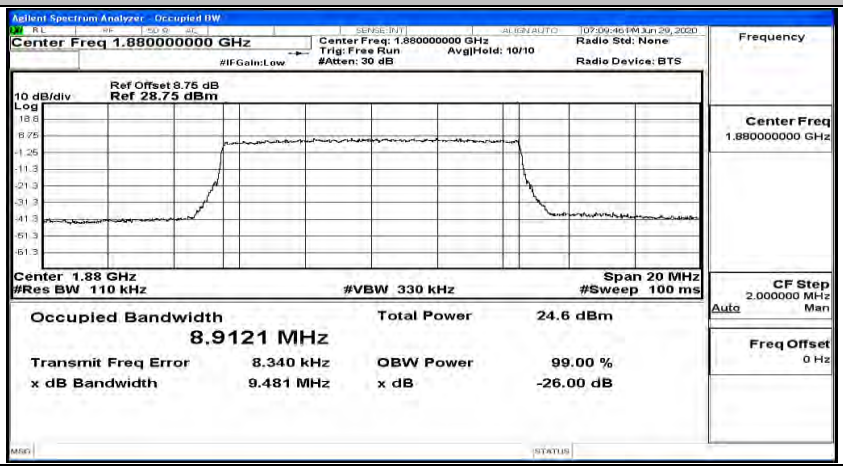
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



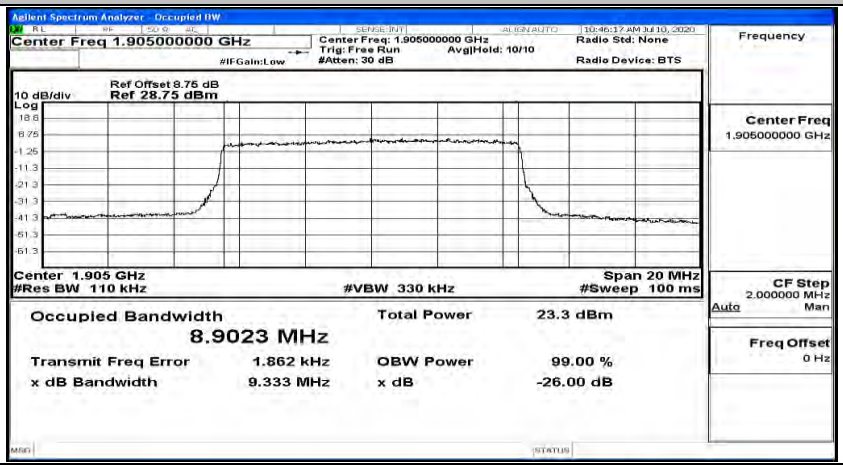
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



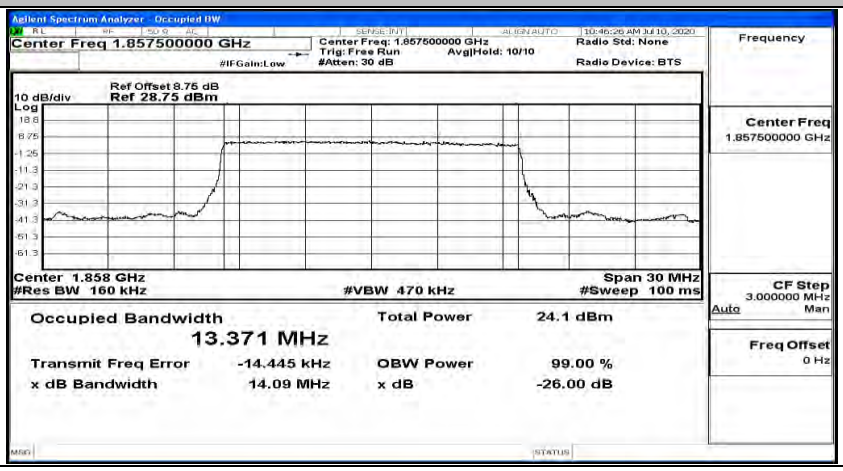
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



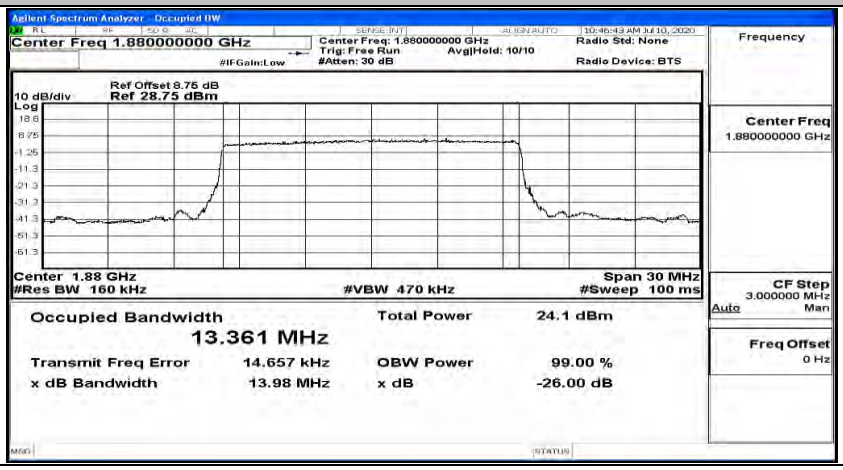
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



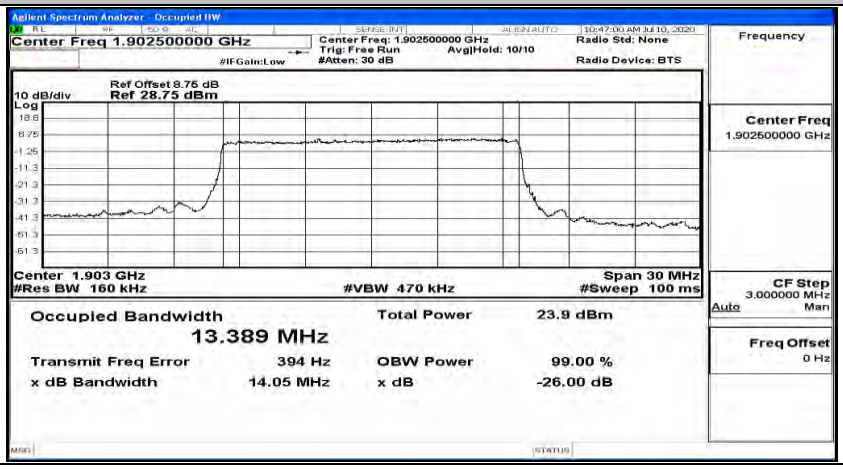
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



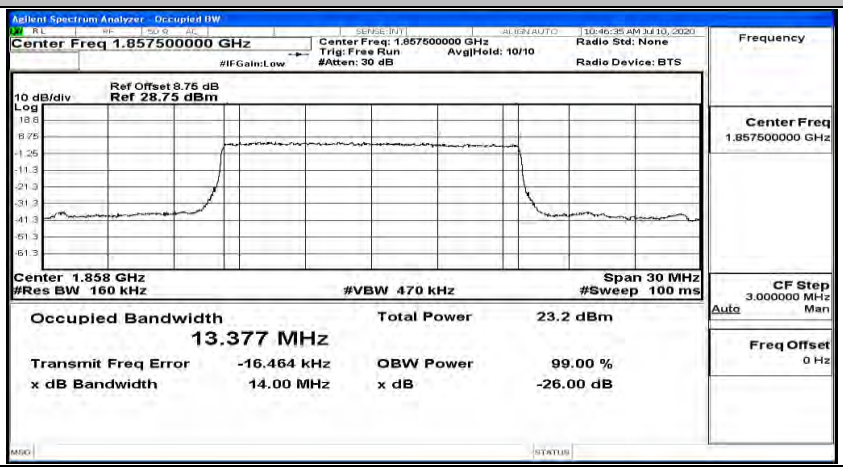
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



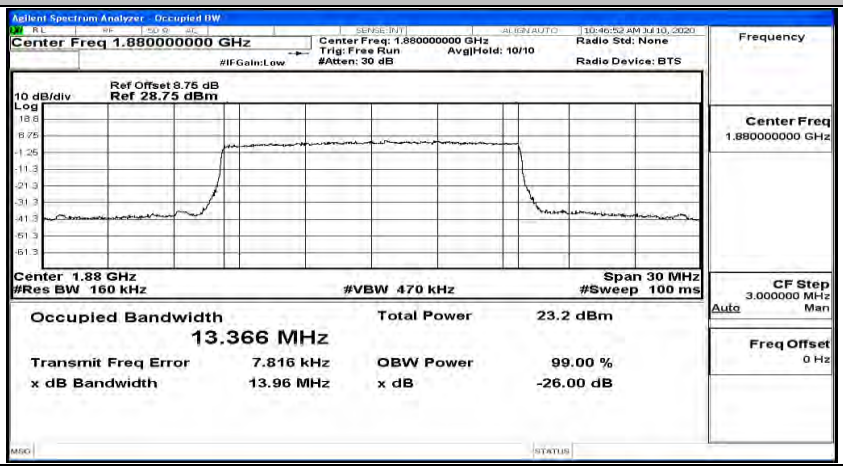
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



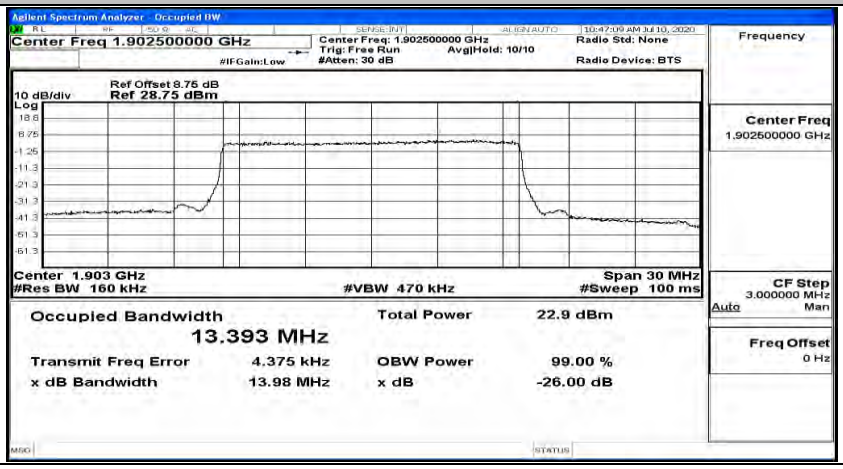
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



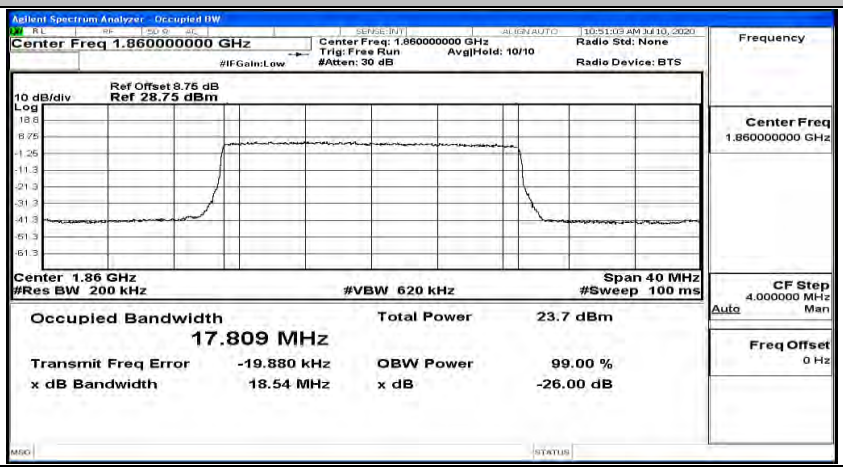
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



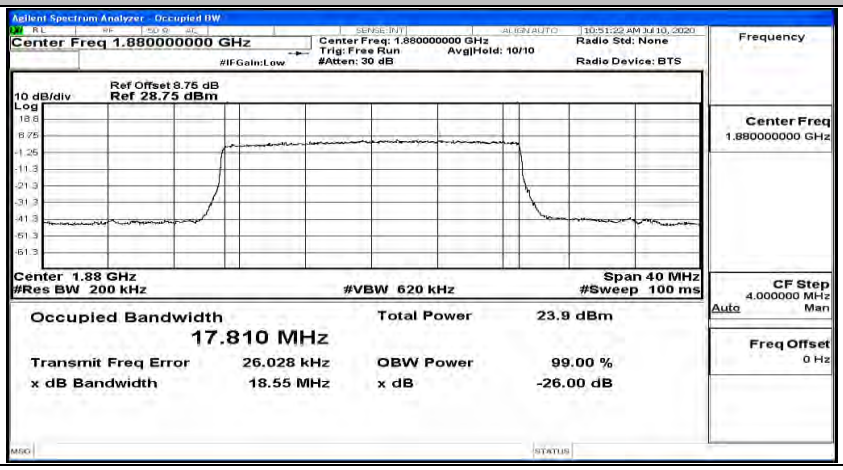
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



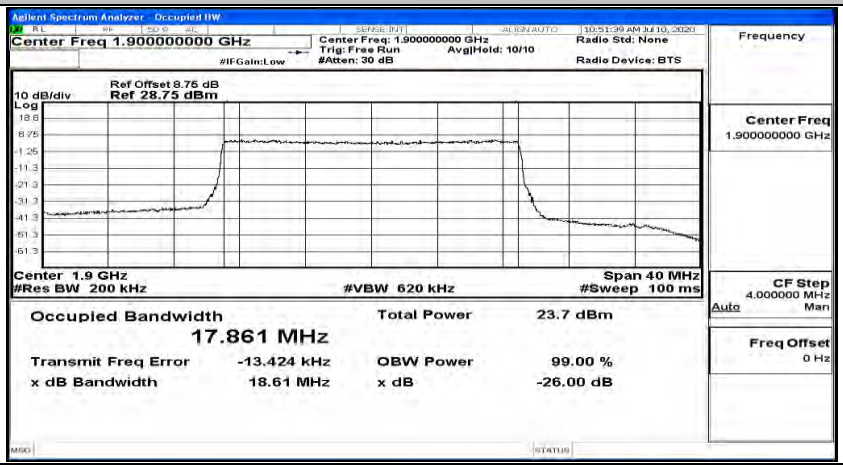
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



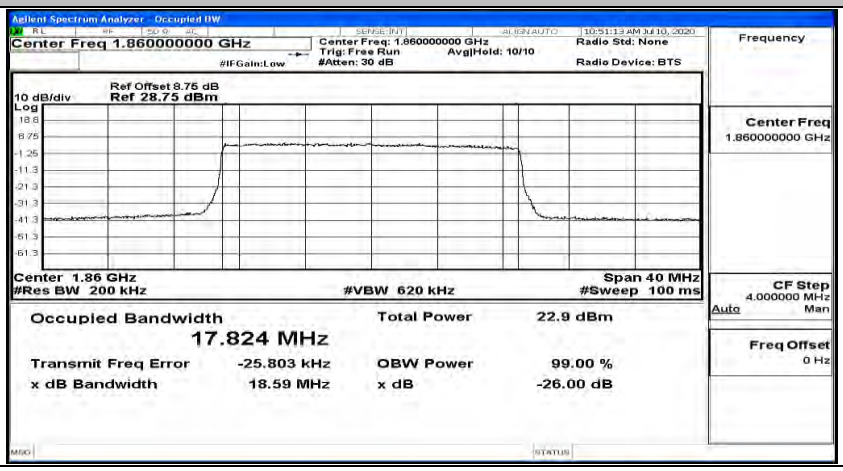
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



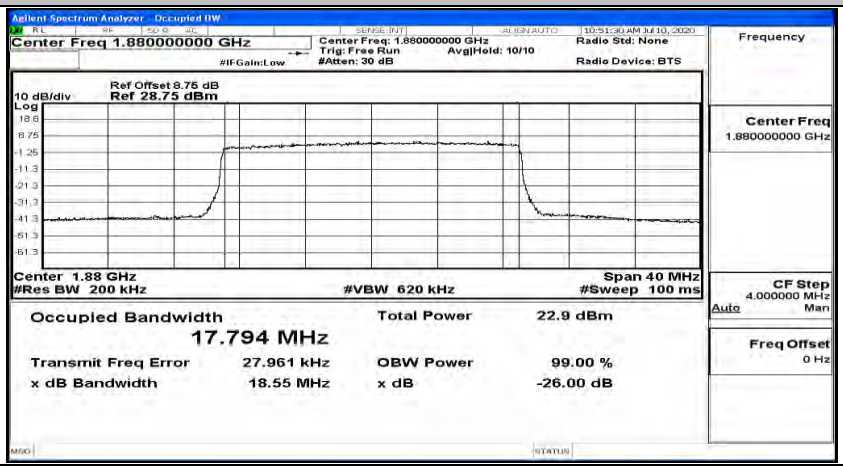
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



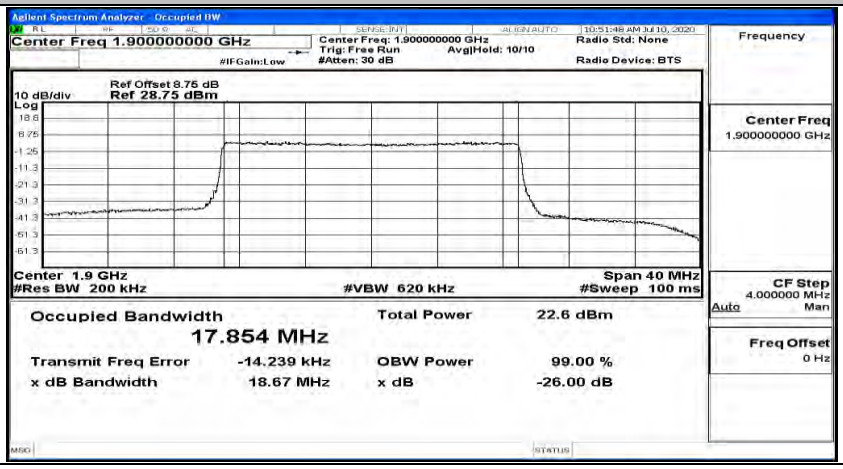
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM

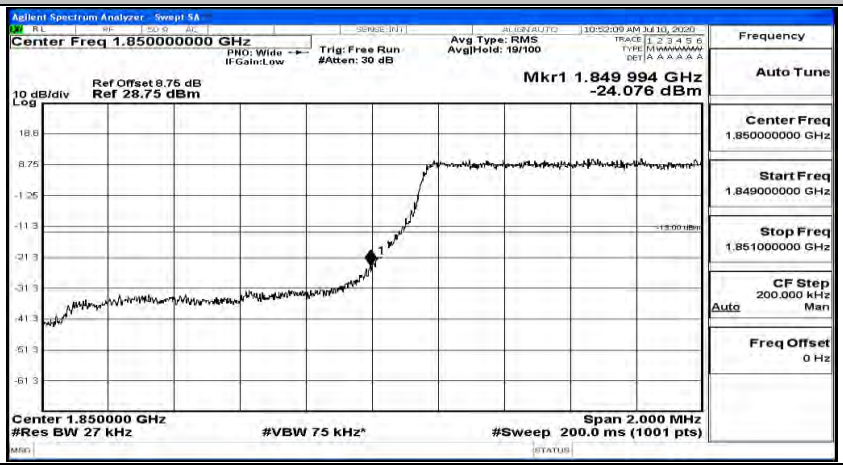


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

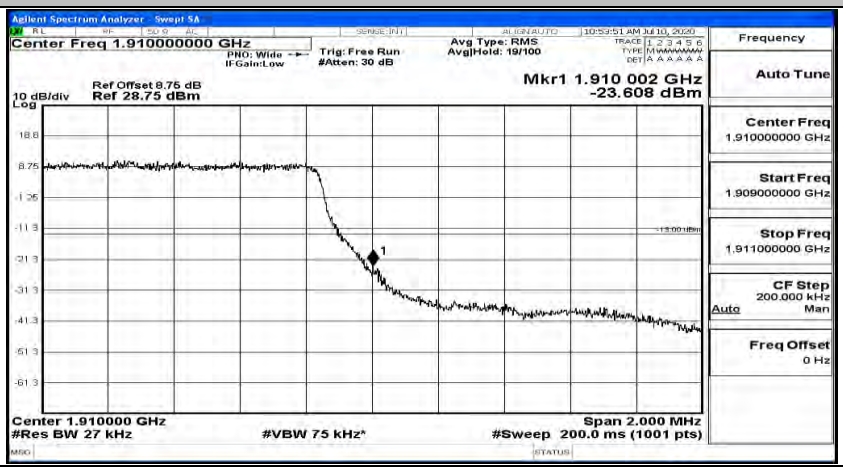


B.4 Band Edge

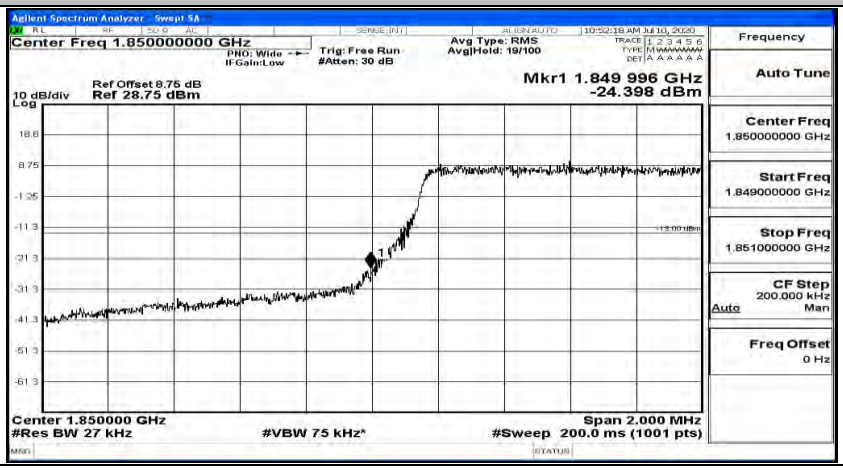
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



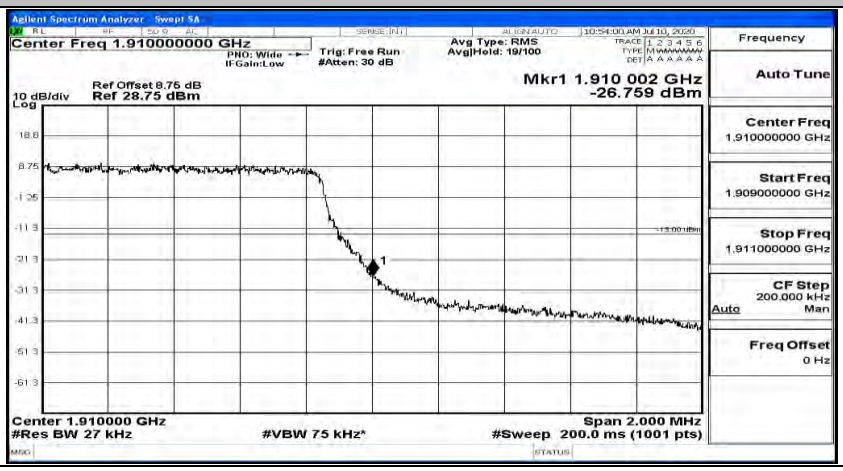
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



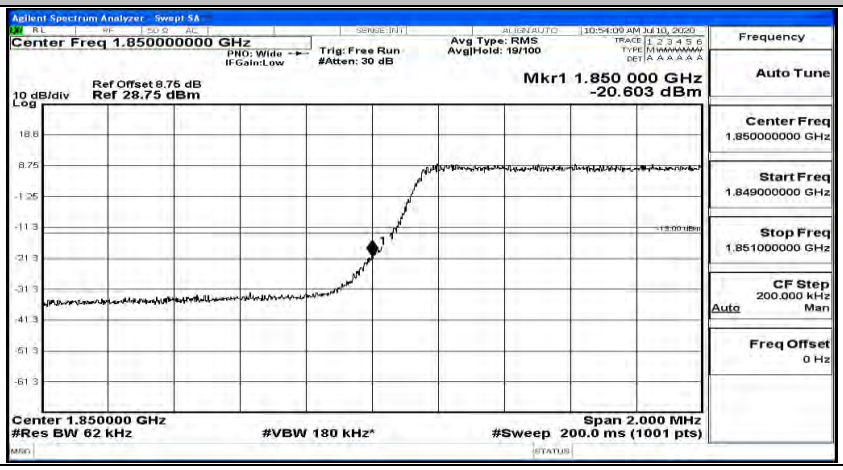
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



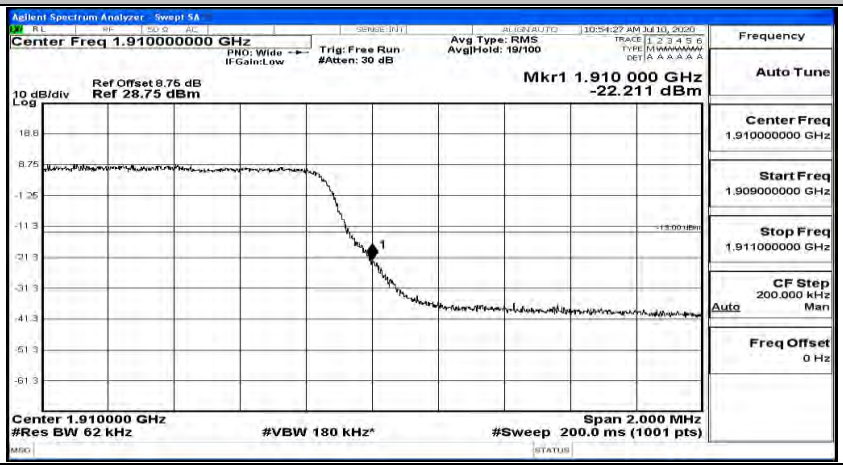
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



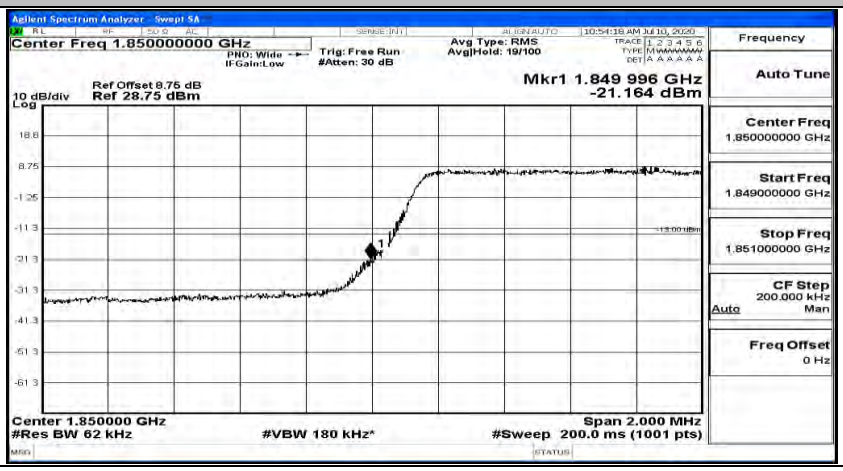
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



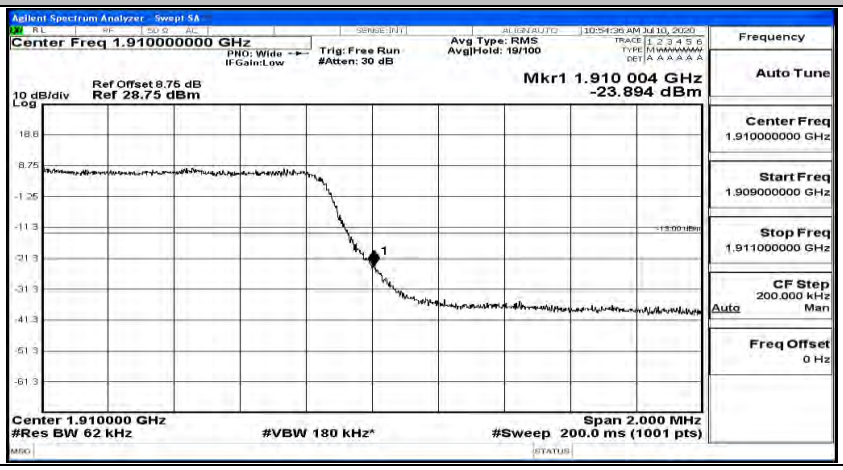
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



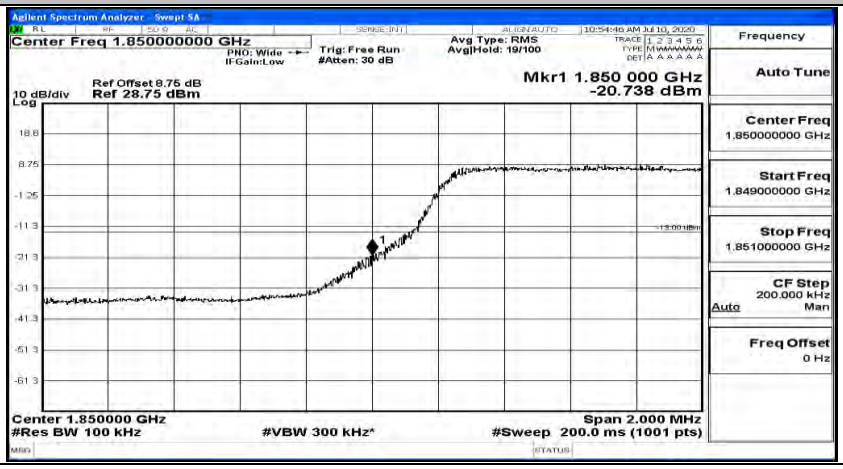
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



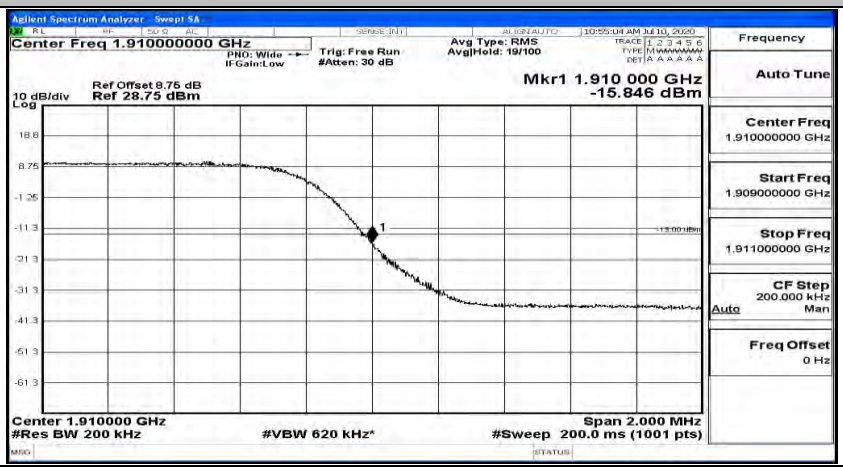
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



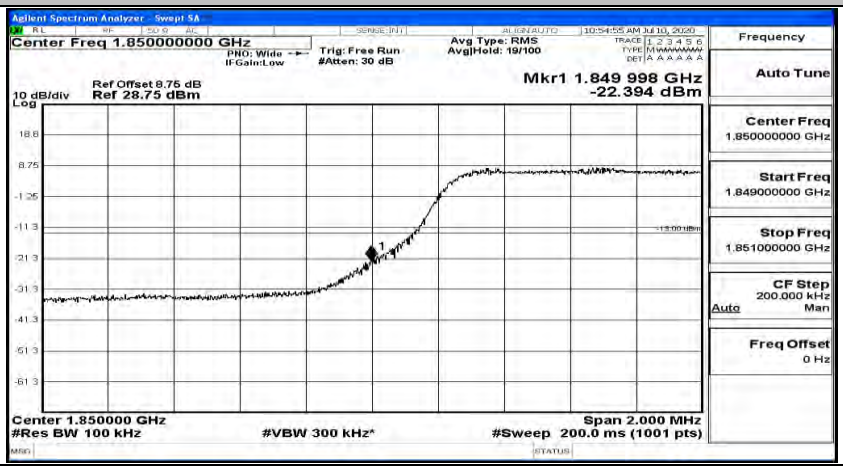
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



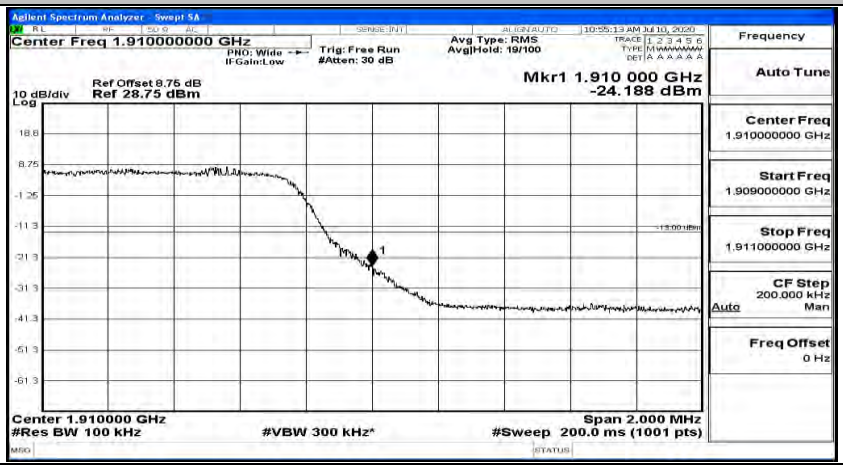
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



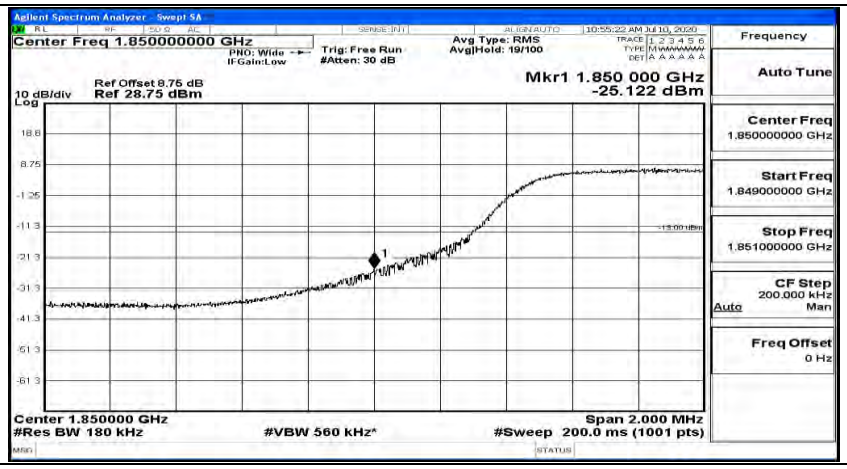
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



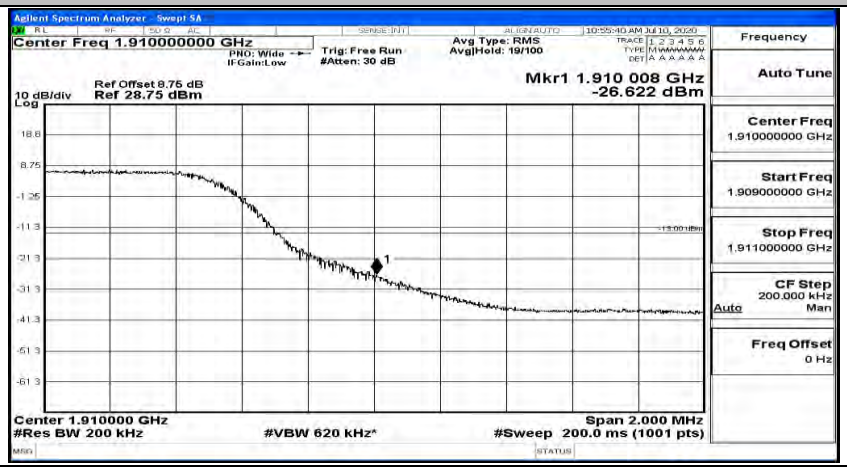
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



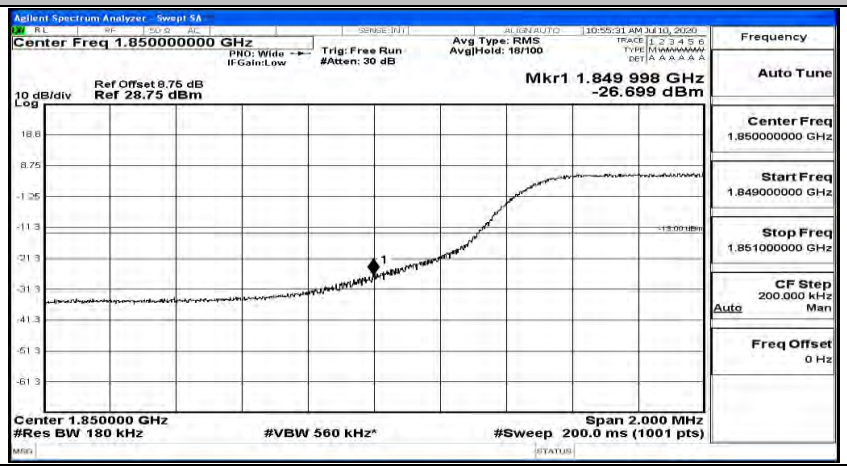
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



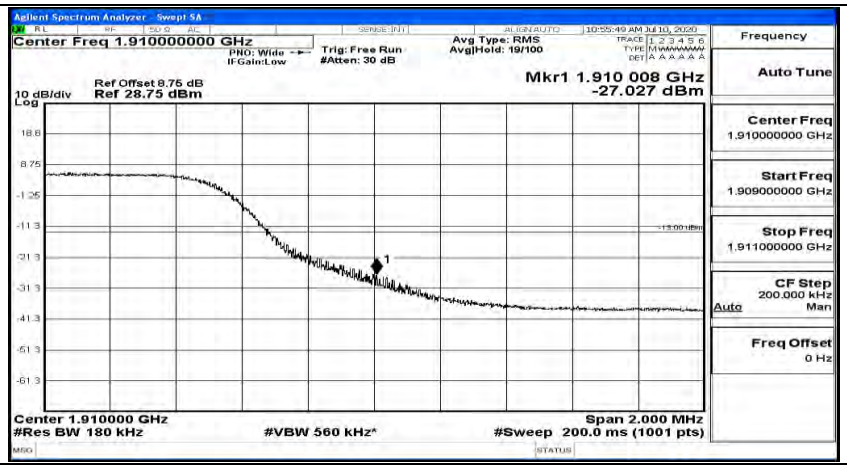
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



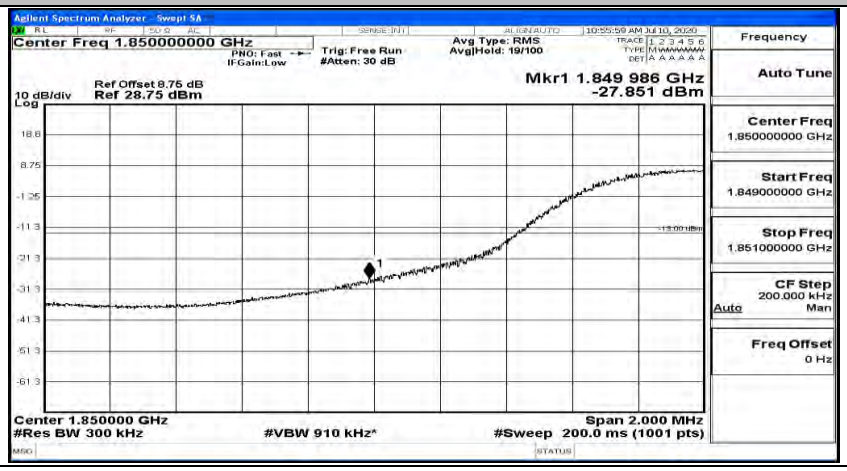
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



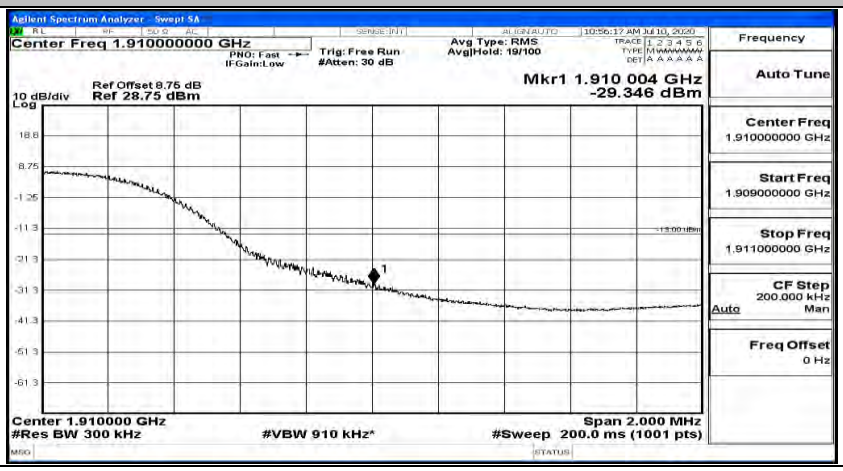
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



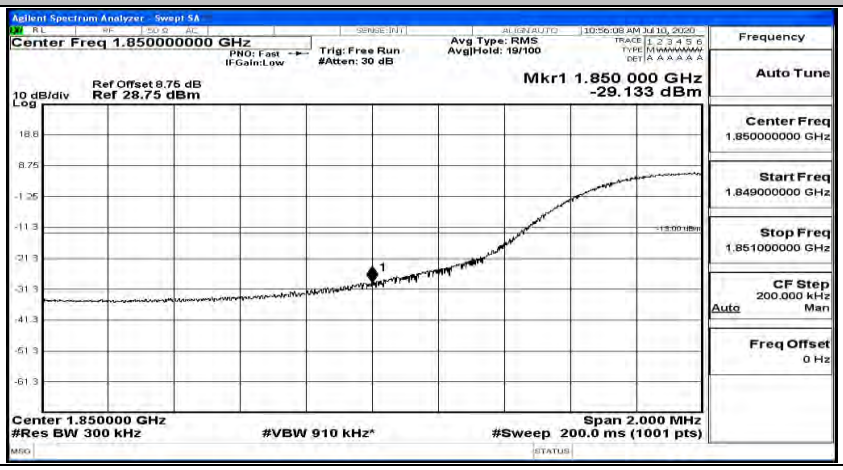
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



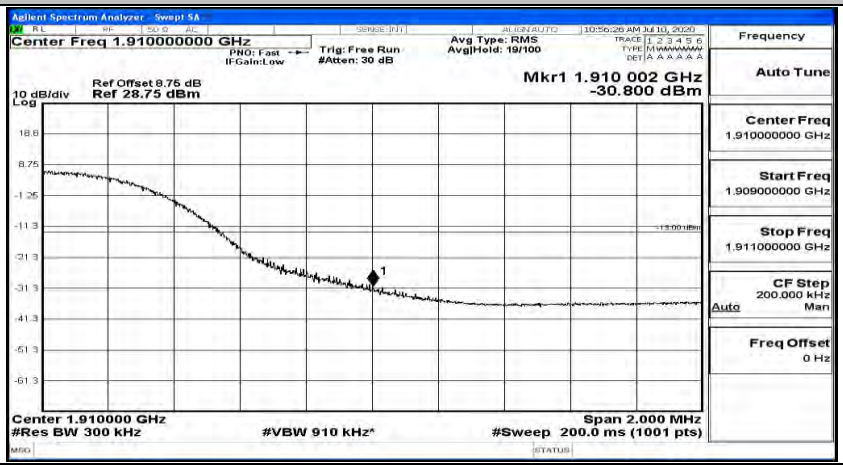
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



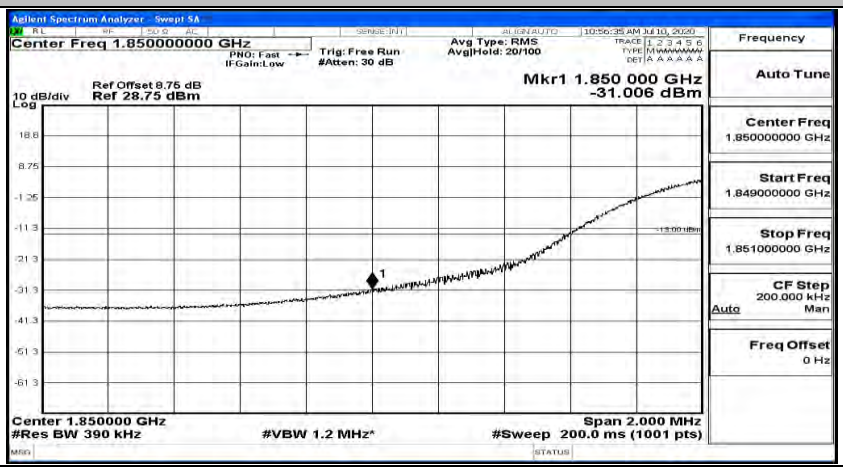
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



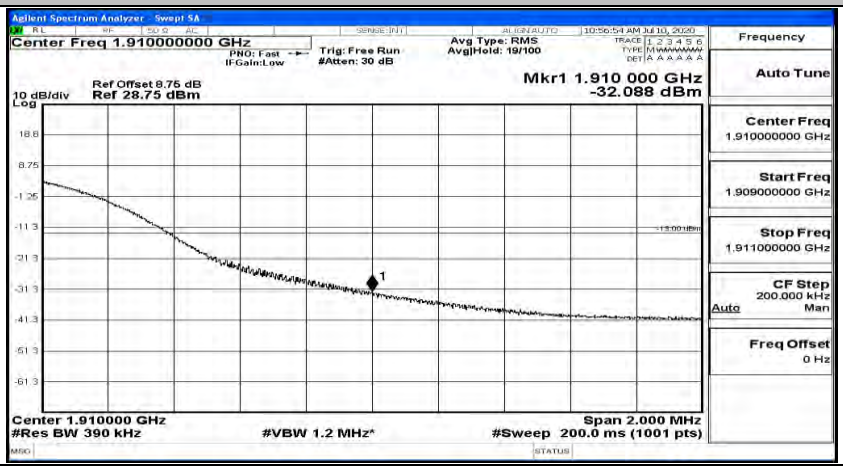
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



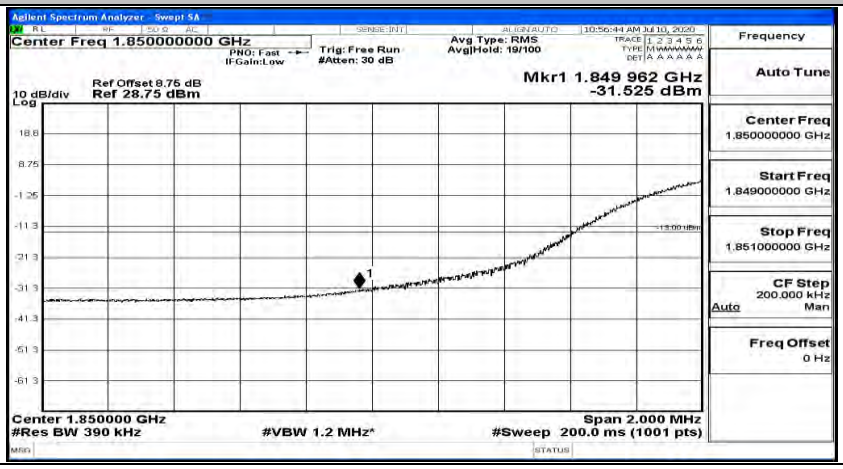
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



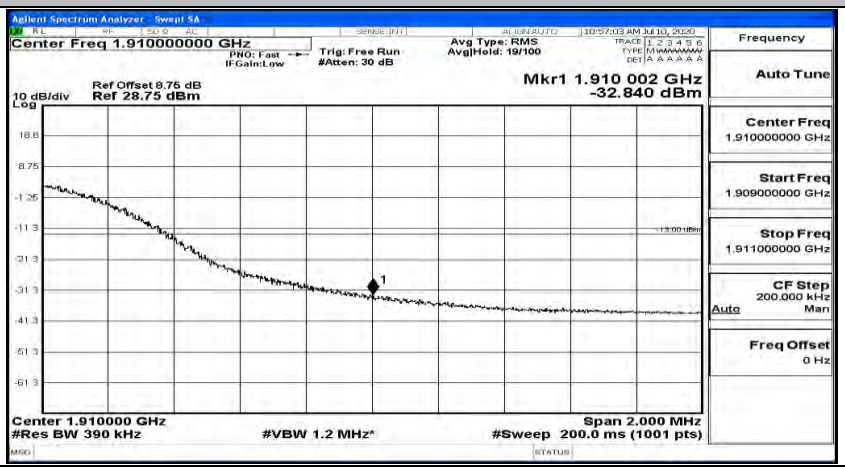
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



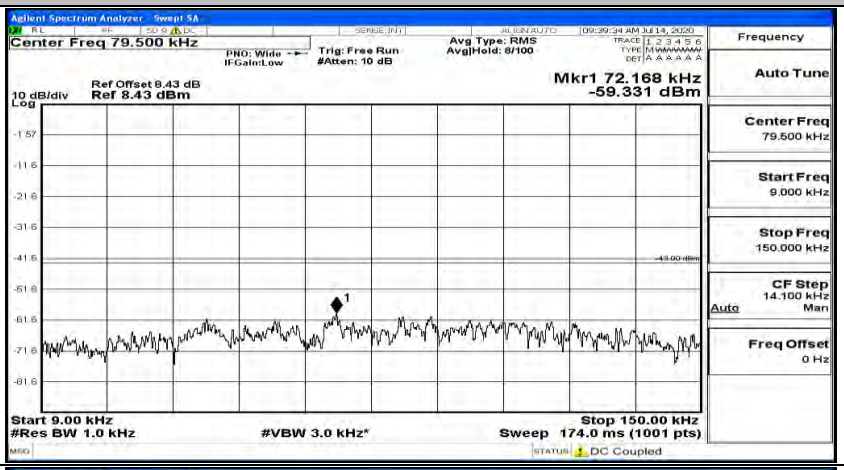
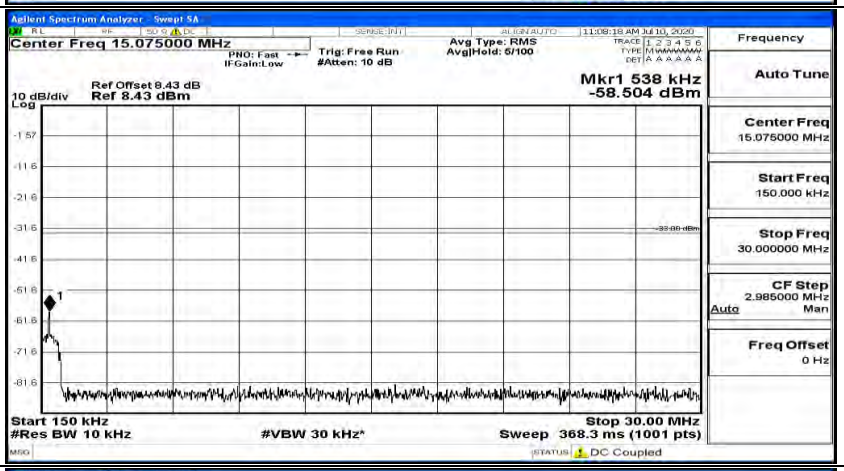
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM

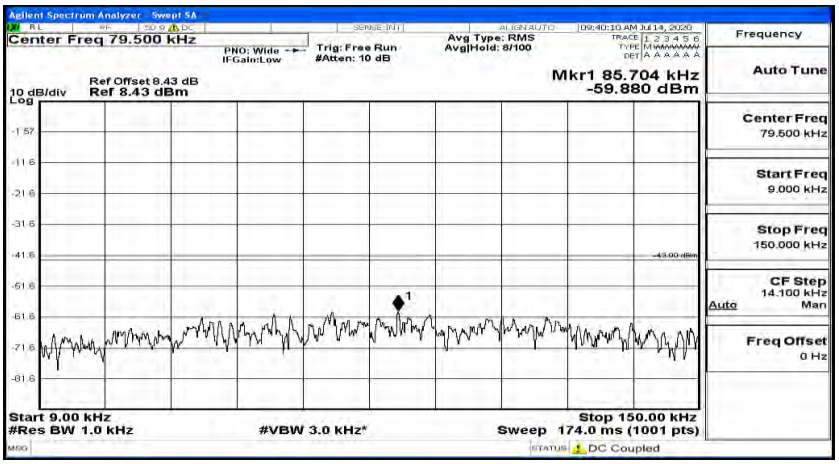


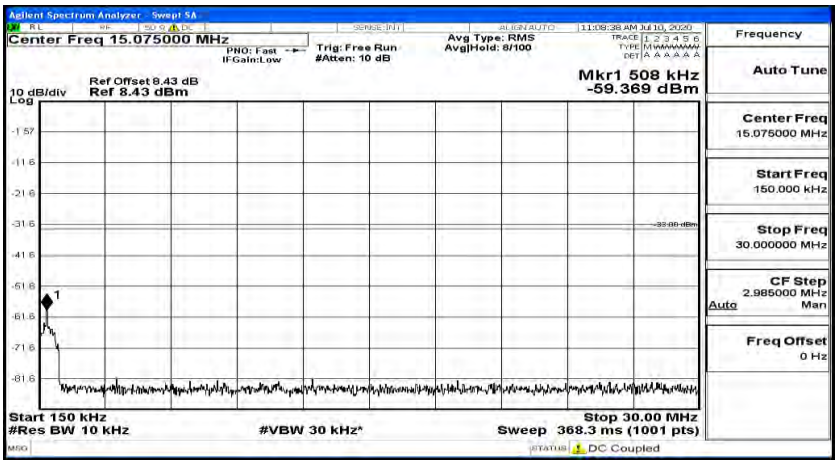
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



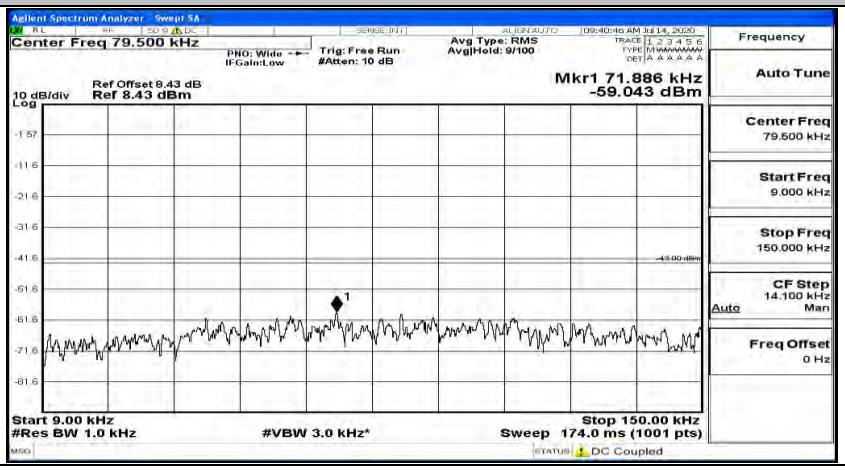
B.5 Conducted Spurious Emission

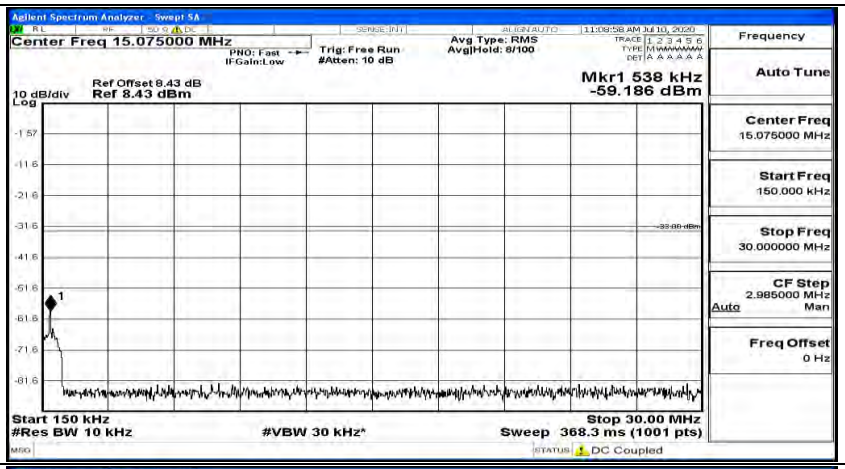
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK


CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK

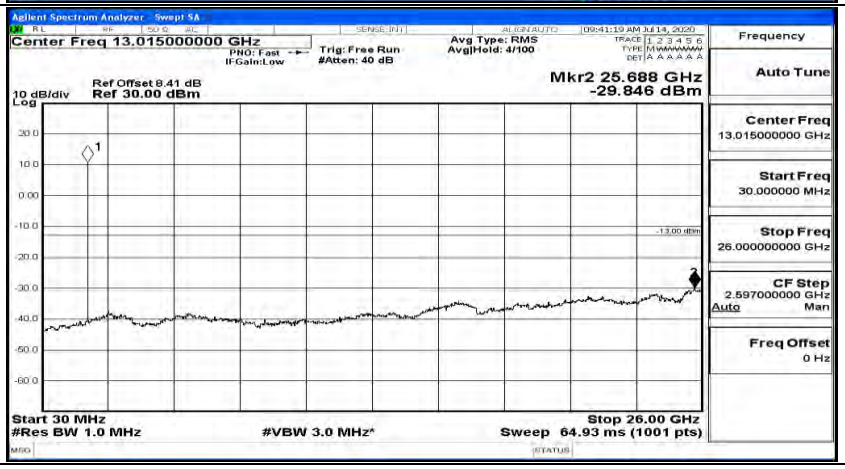




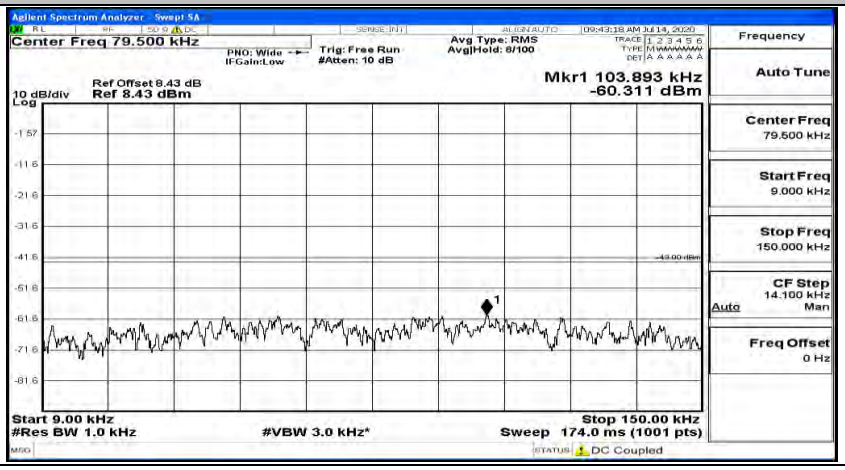
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK

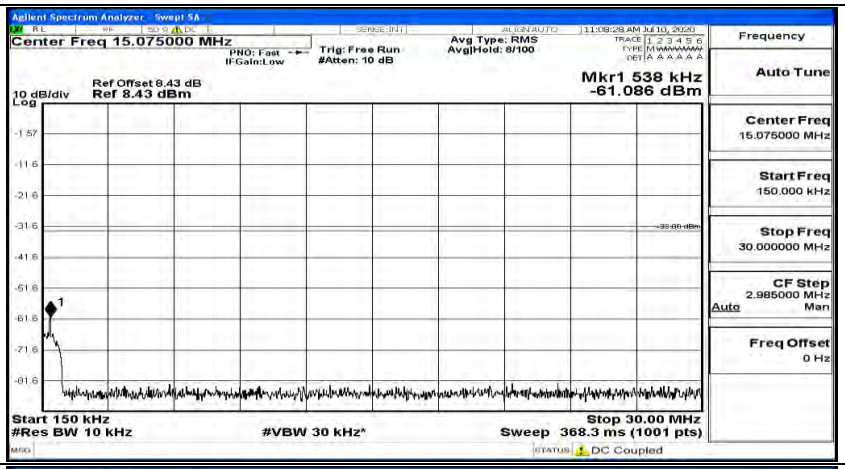




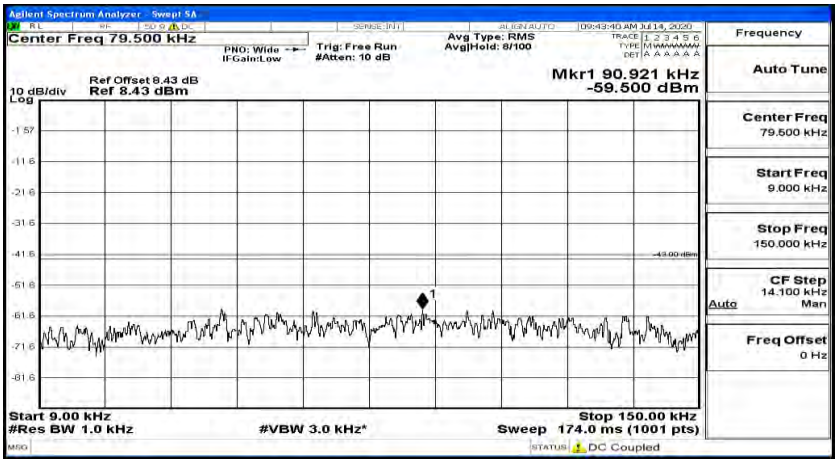


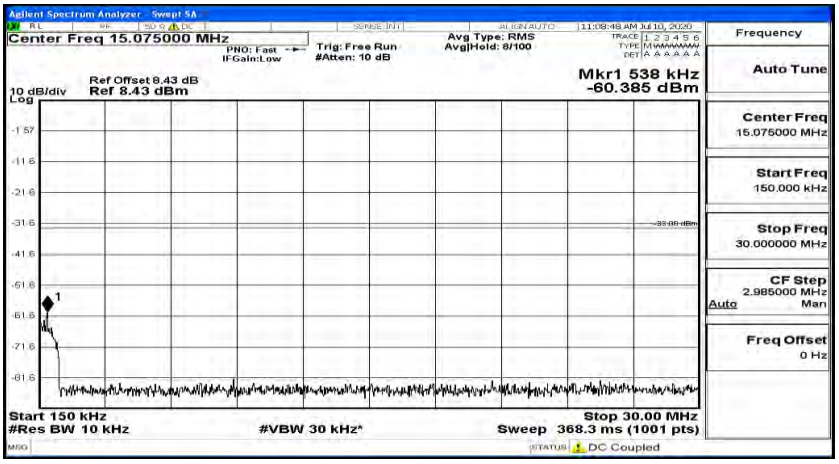
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



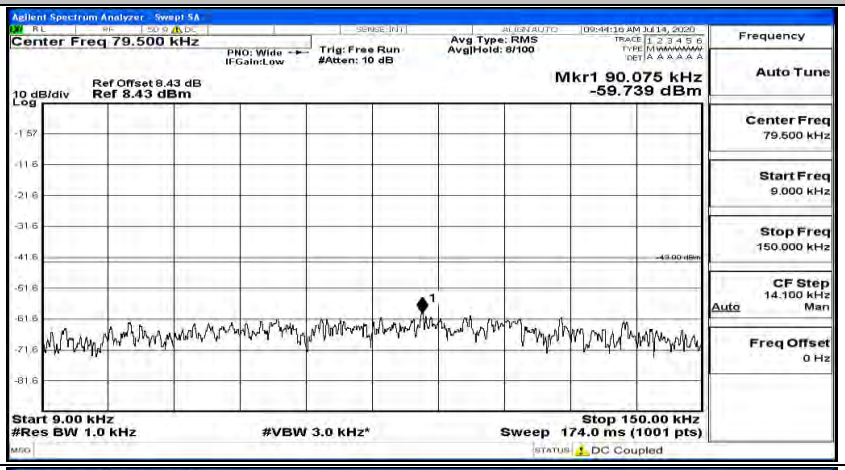


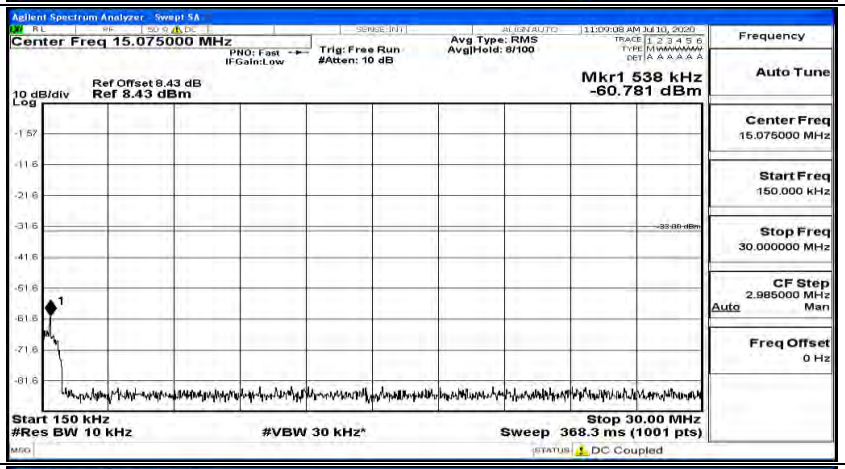
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM

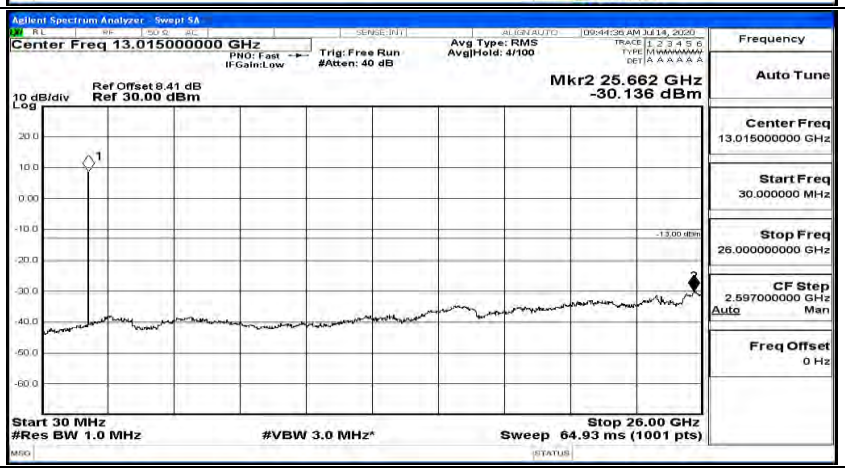




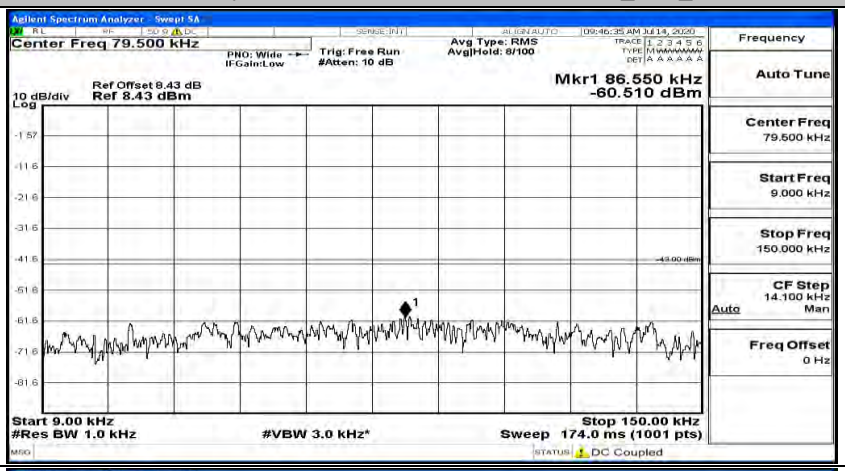
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM

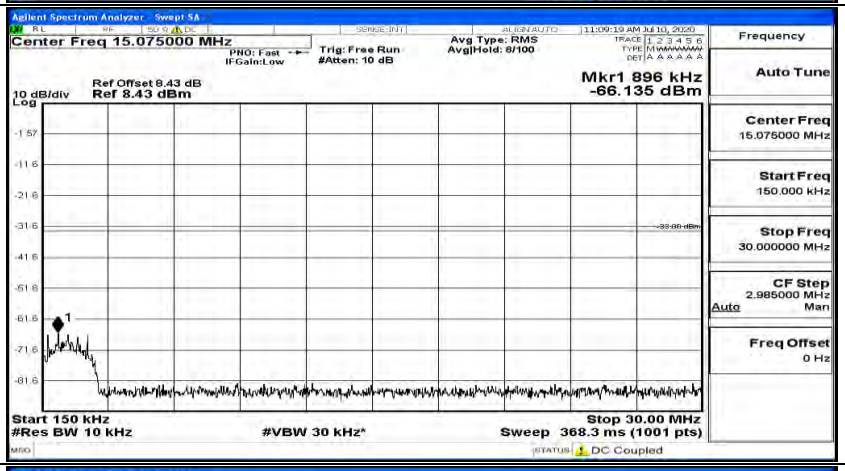




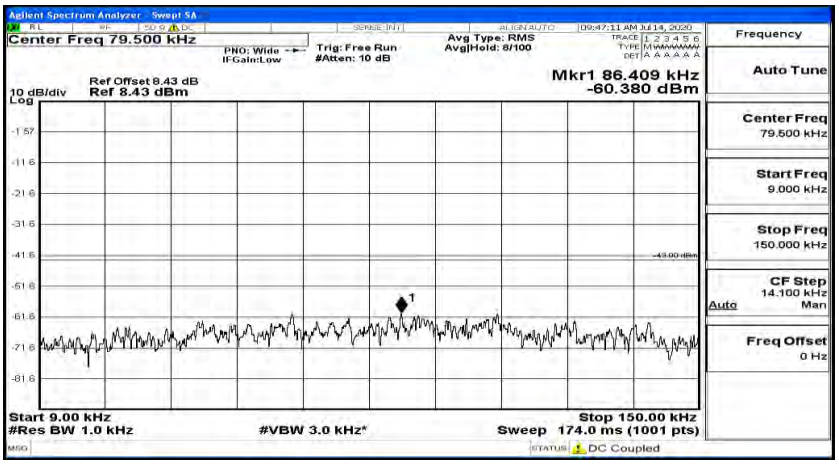


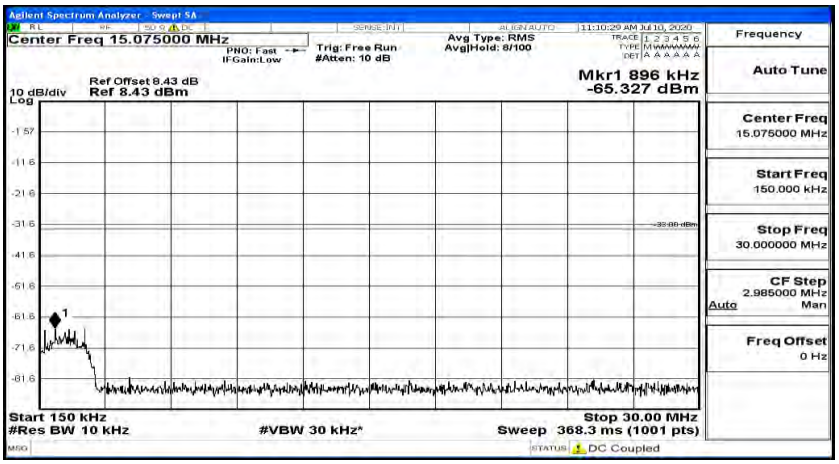
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



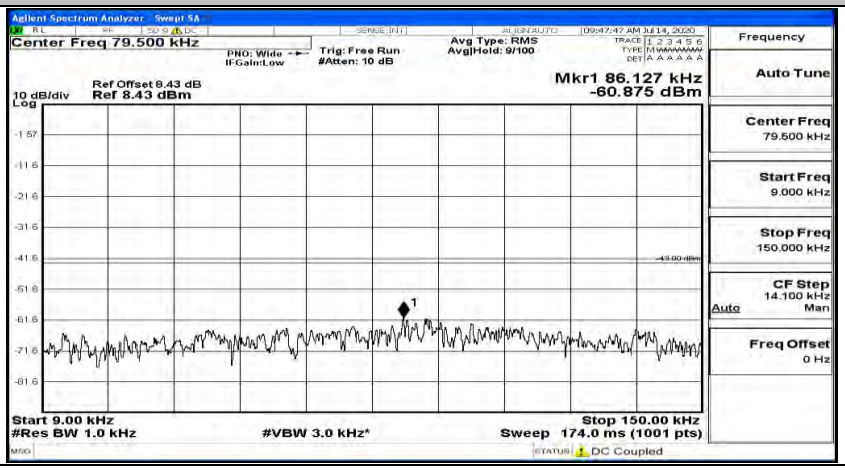


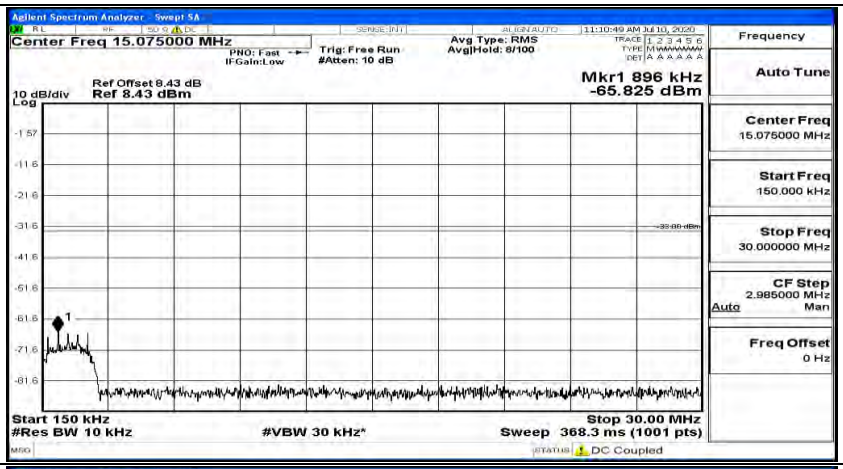
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



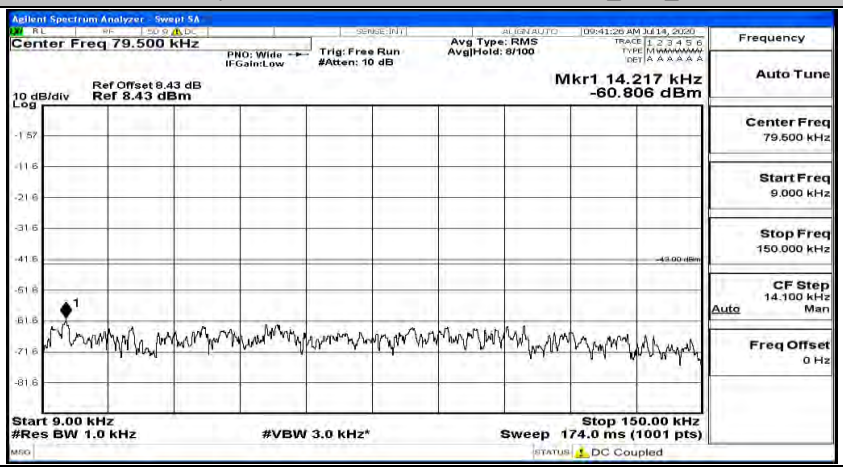


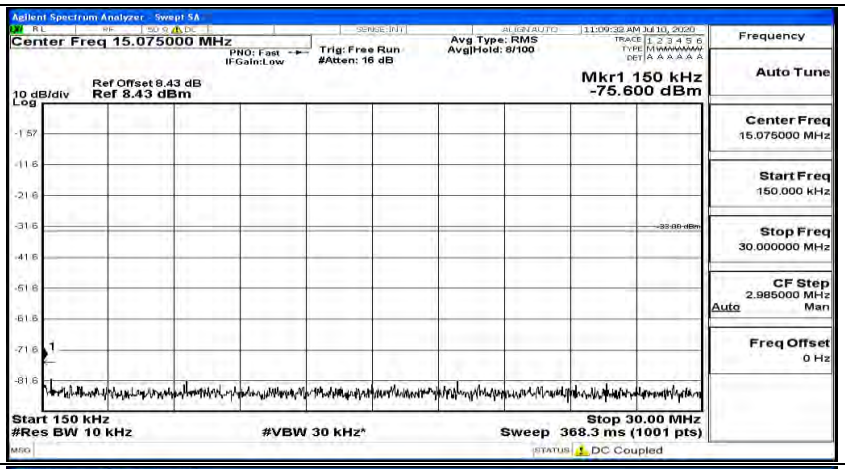
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



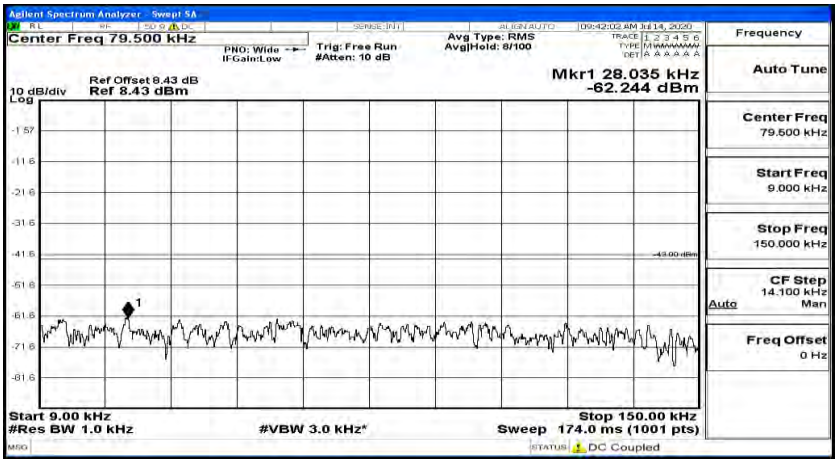


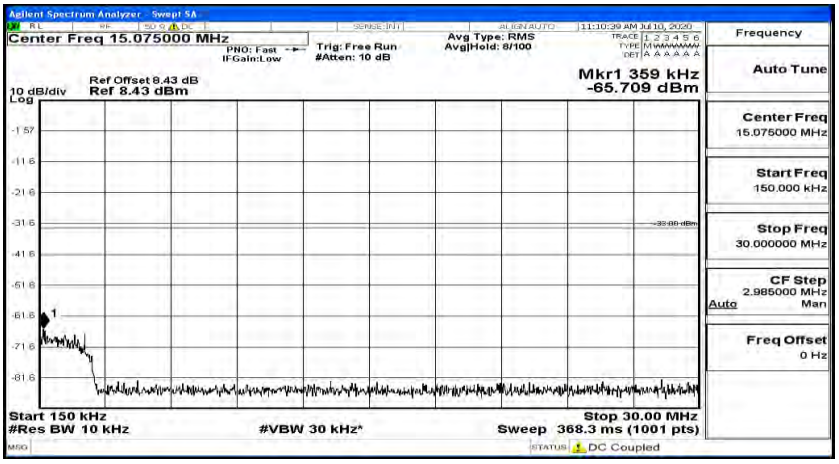
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



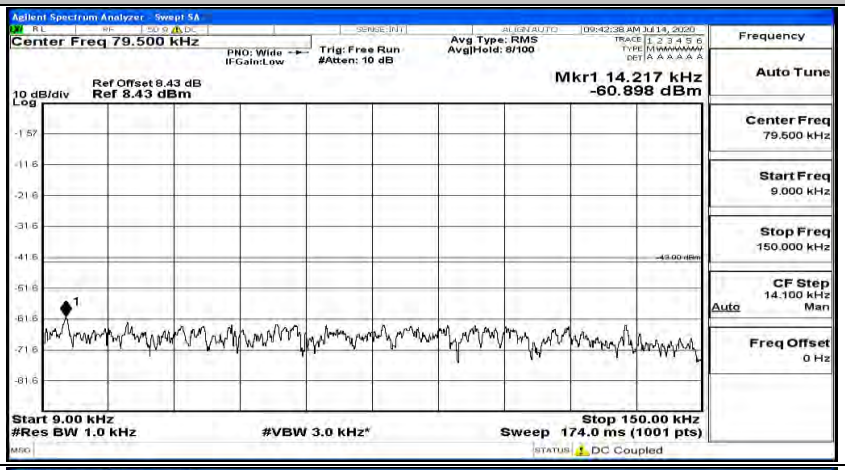


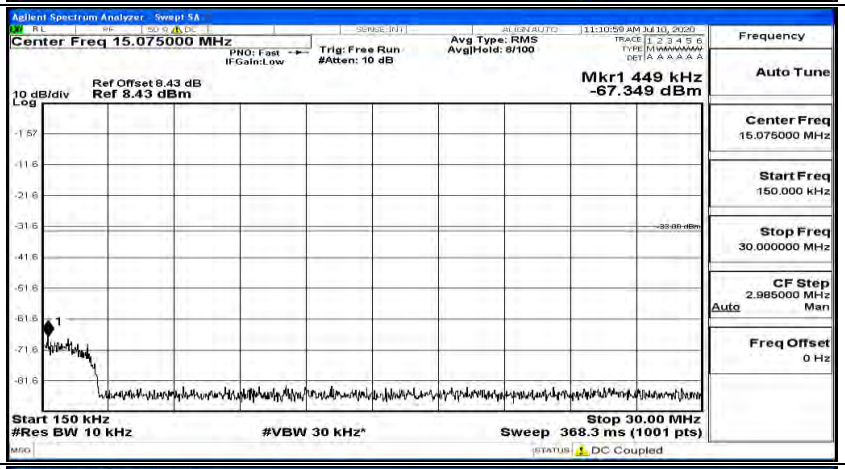
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



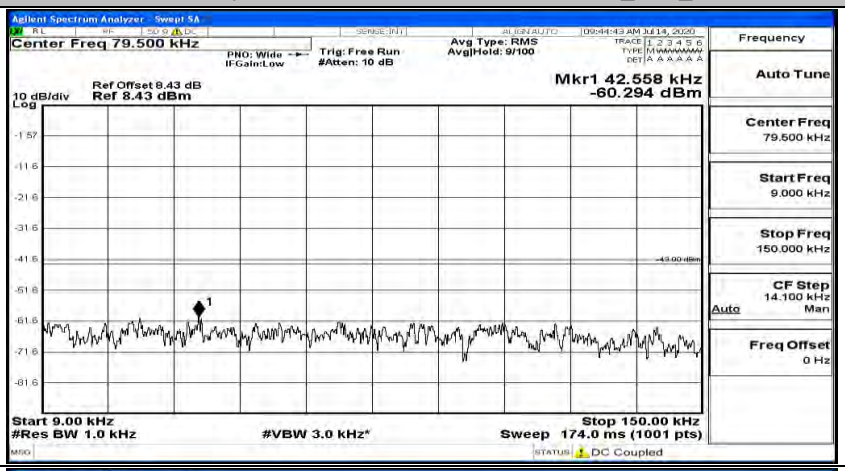


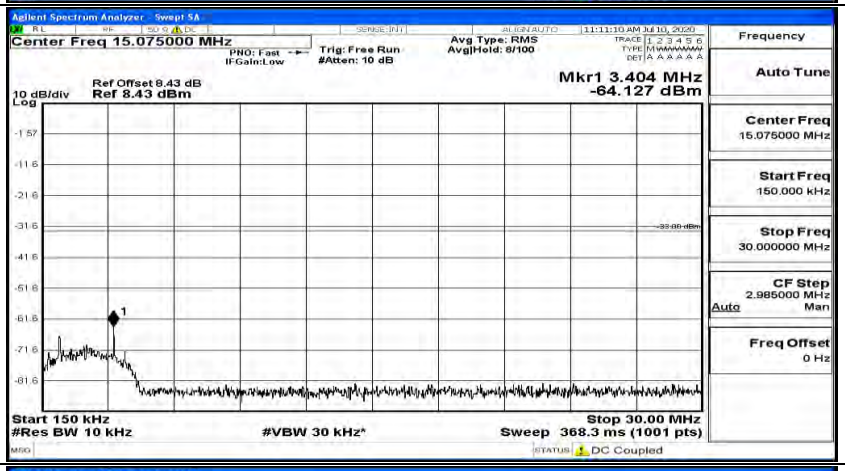
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



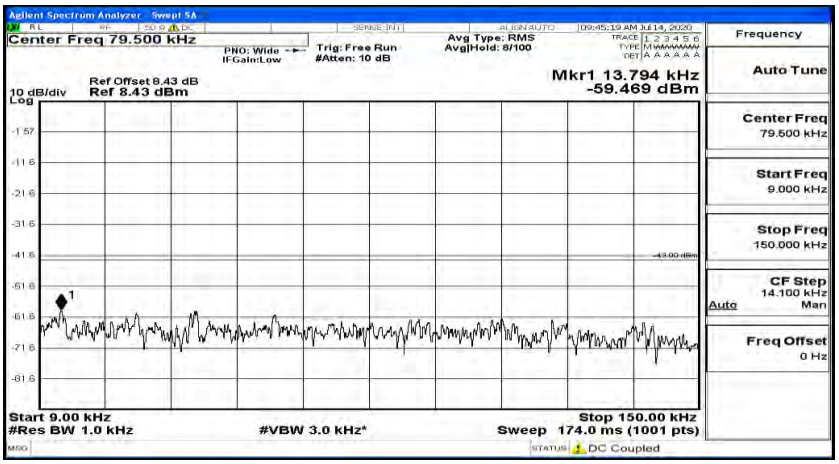


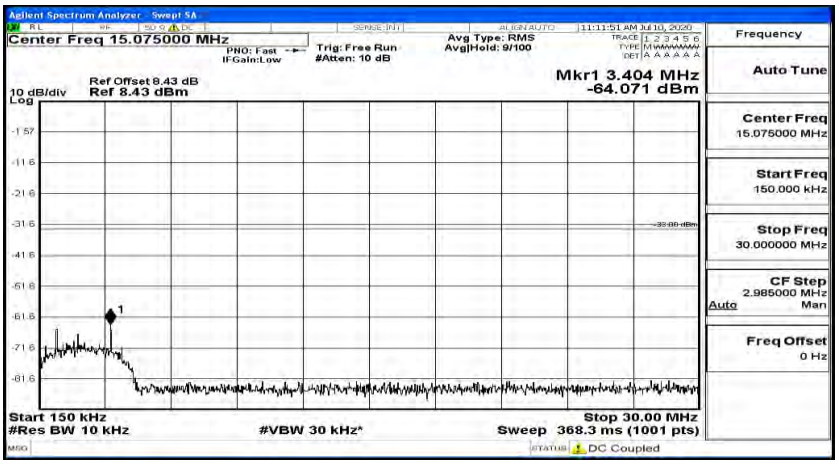
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



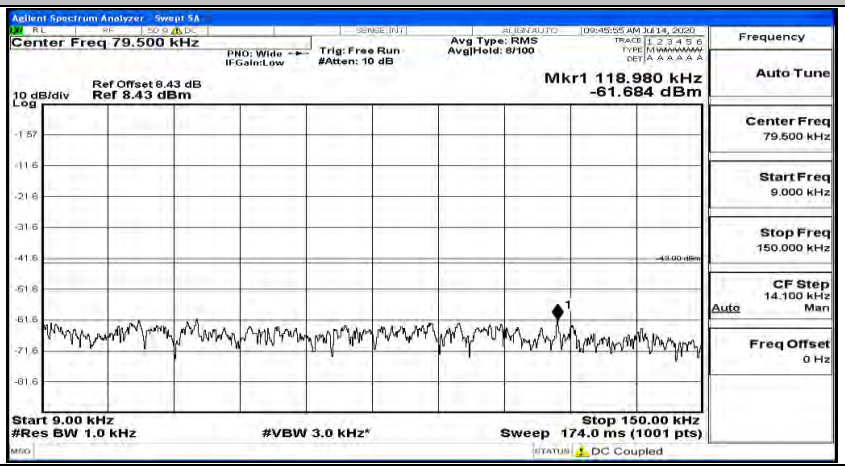


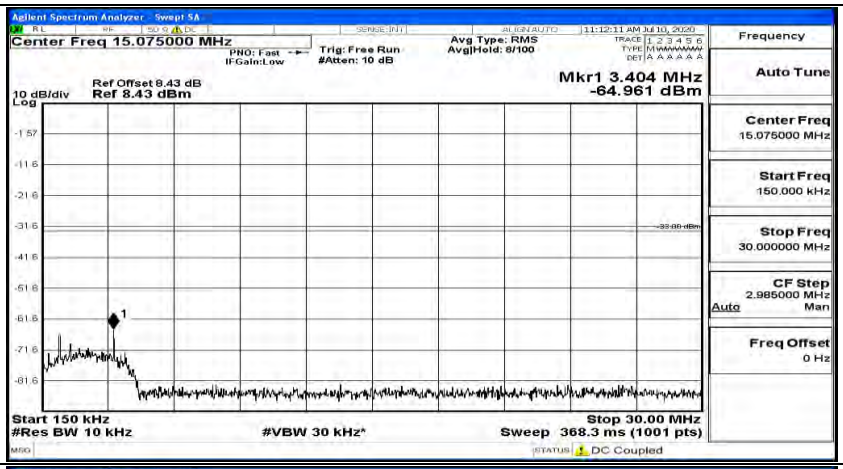
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



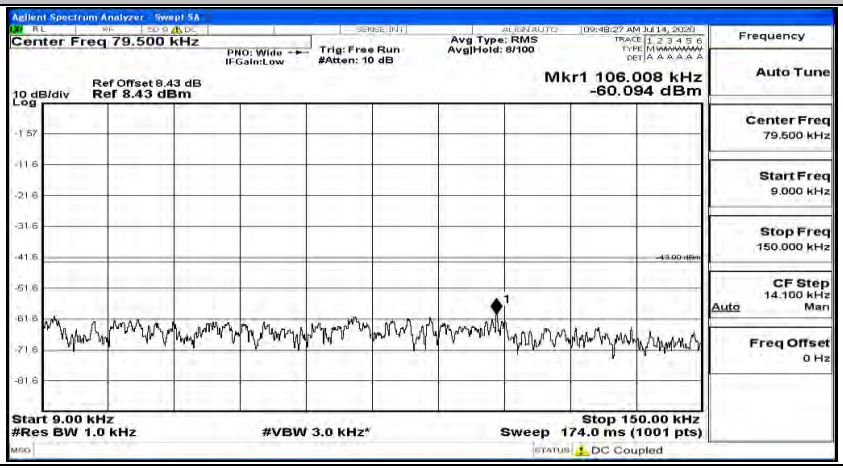


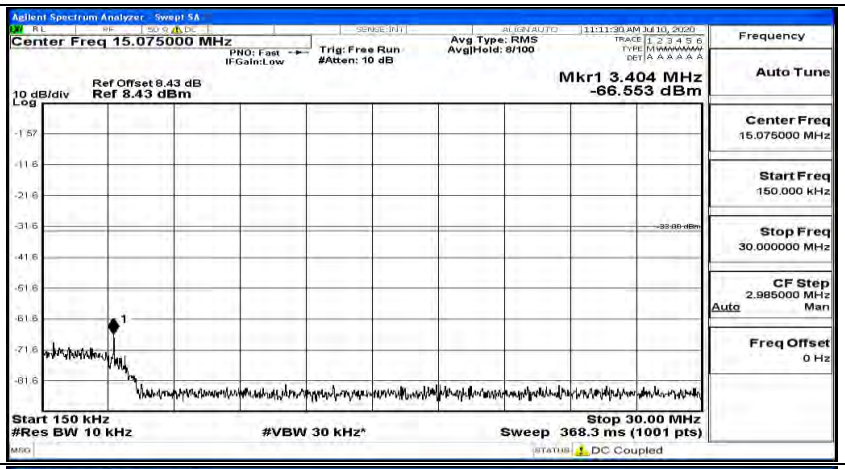
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



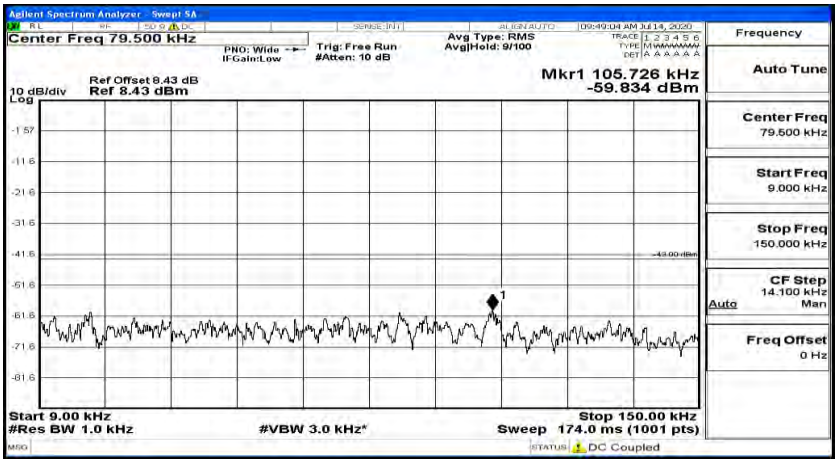


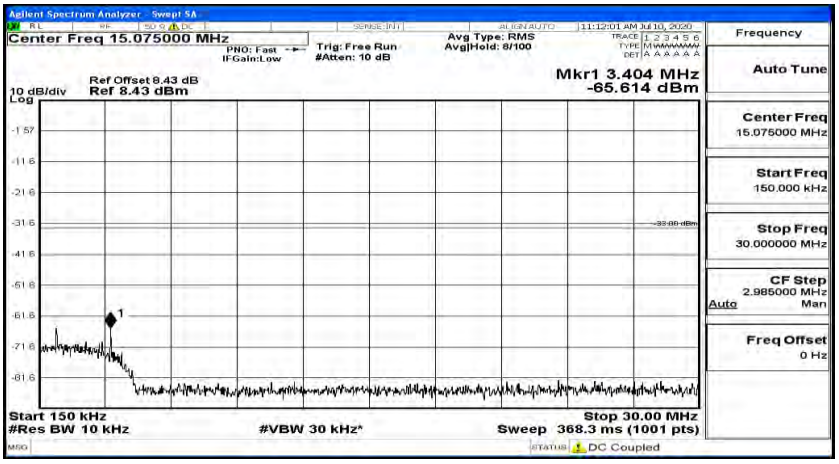
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



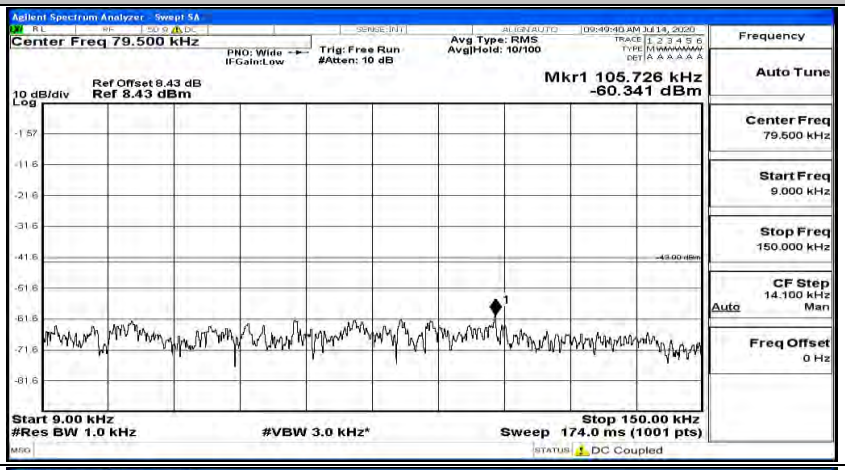


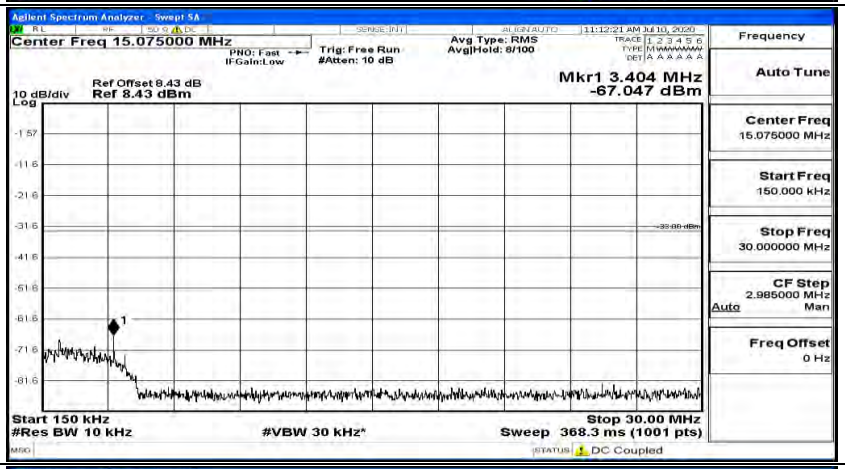
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



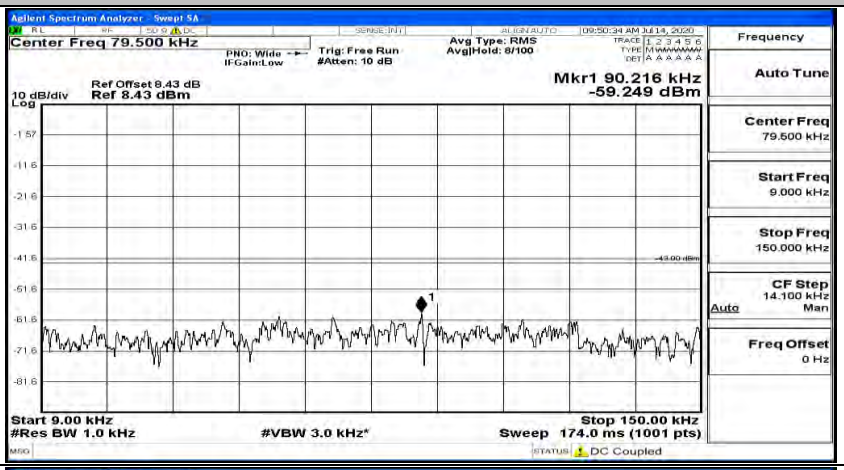
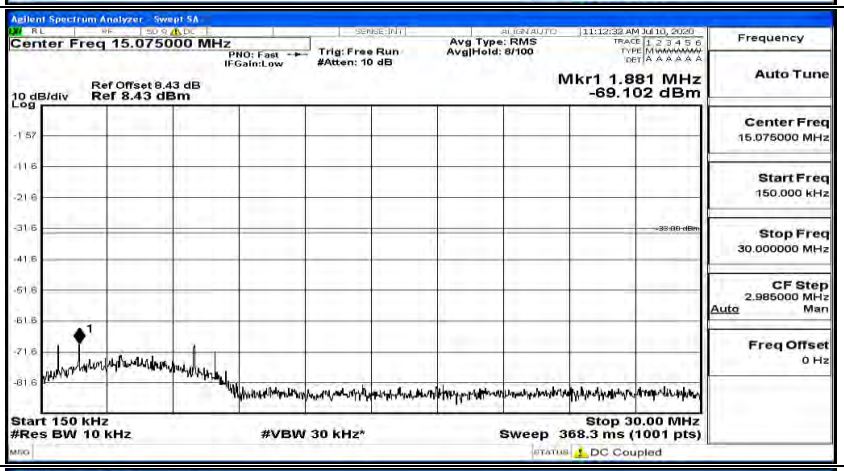


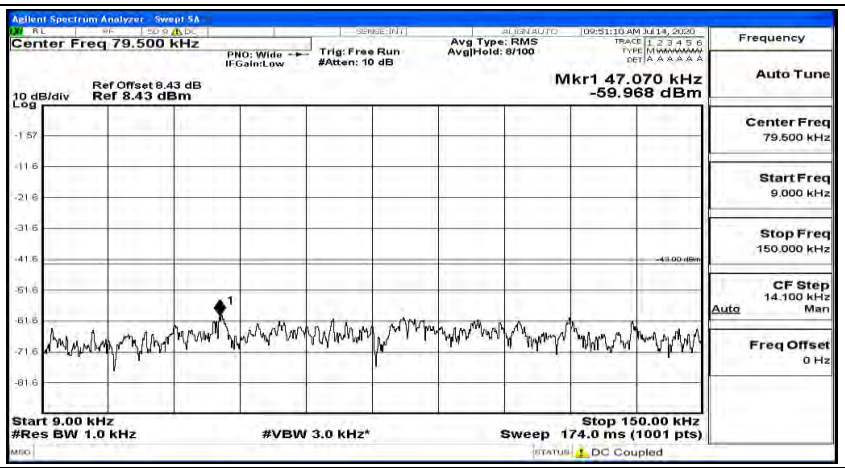
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

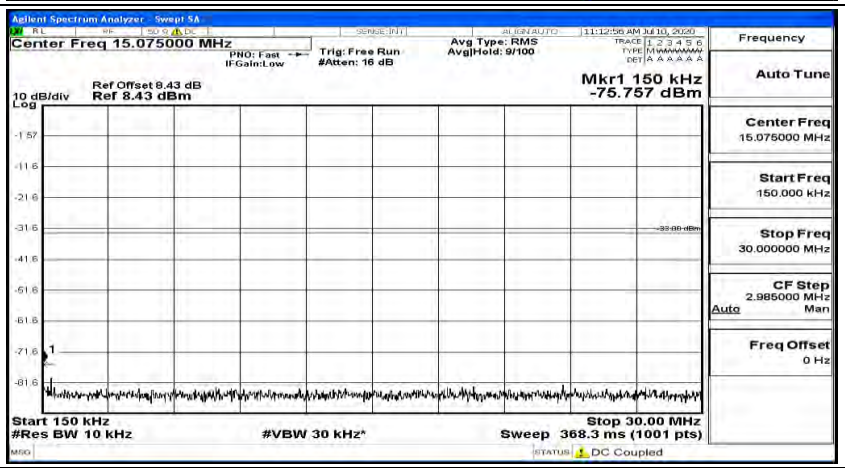


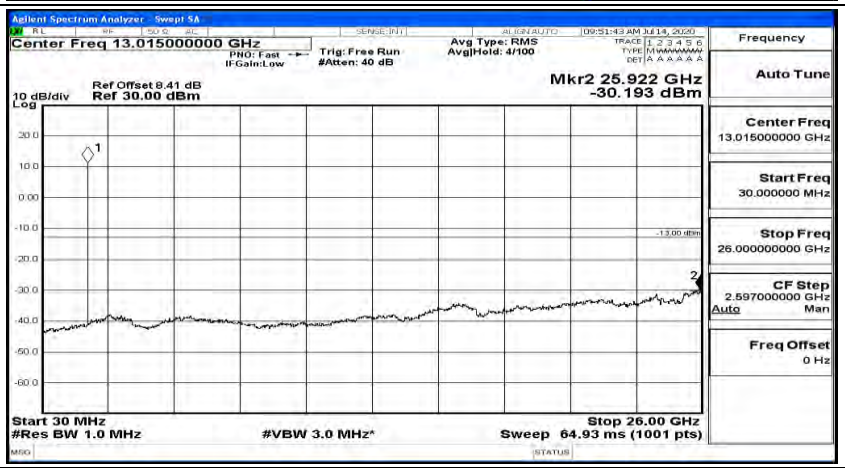


Channel Bandwidth: 3 MHz

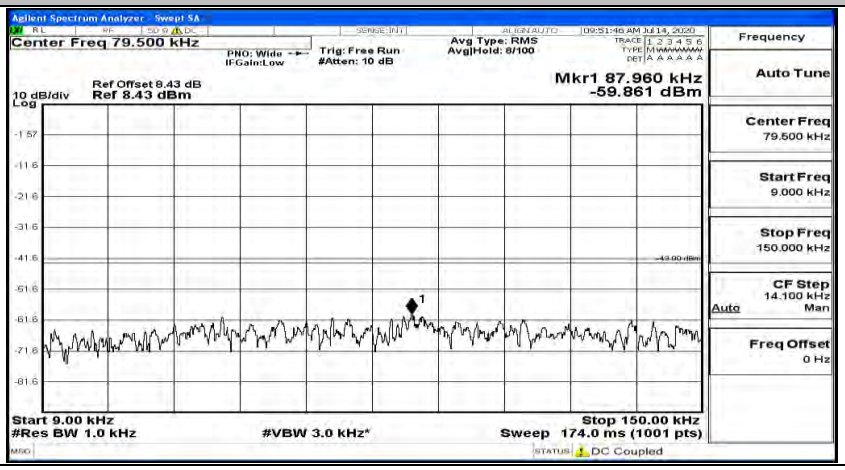
(CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK


CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

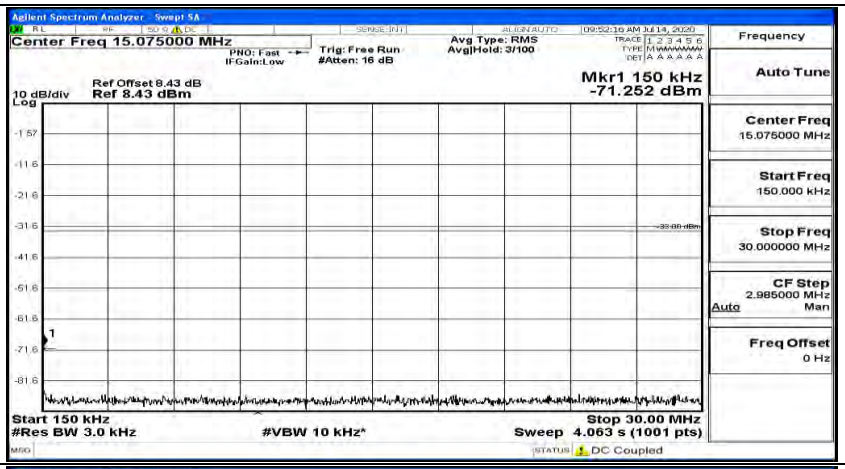


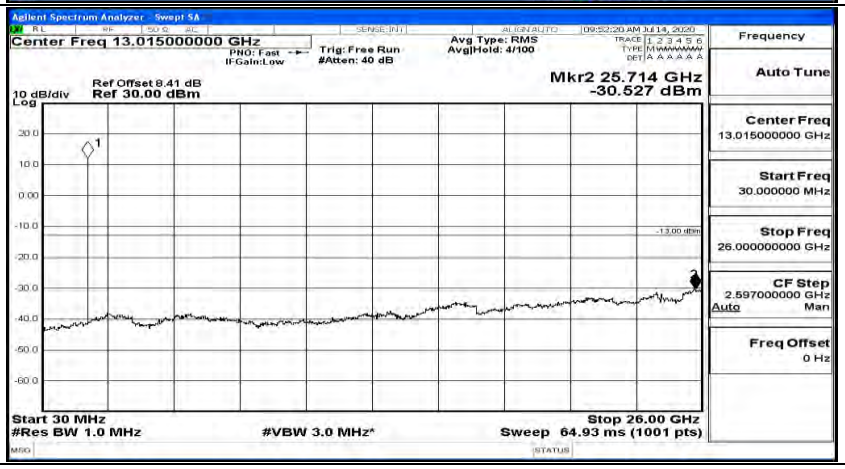




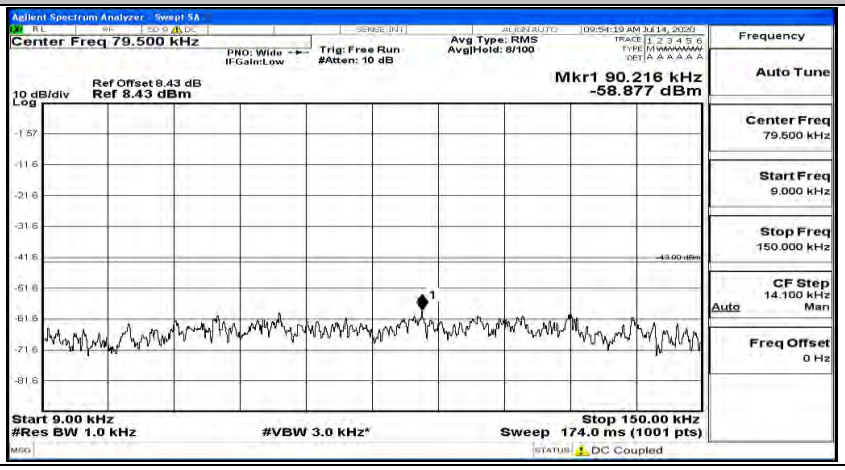
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

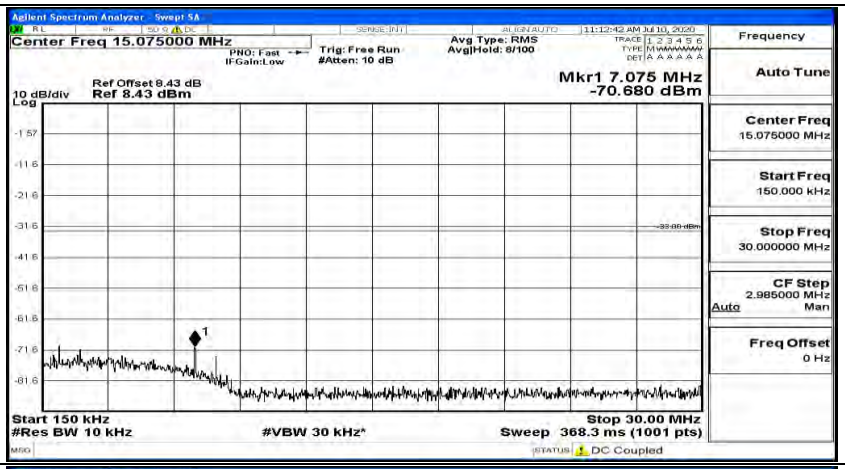




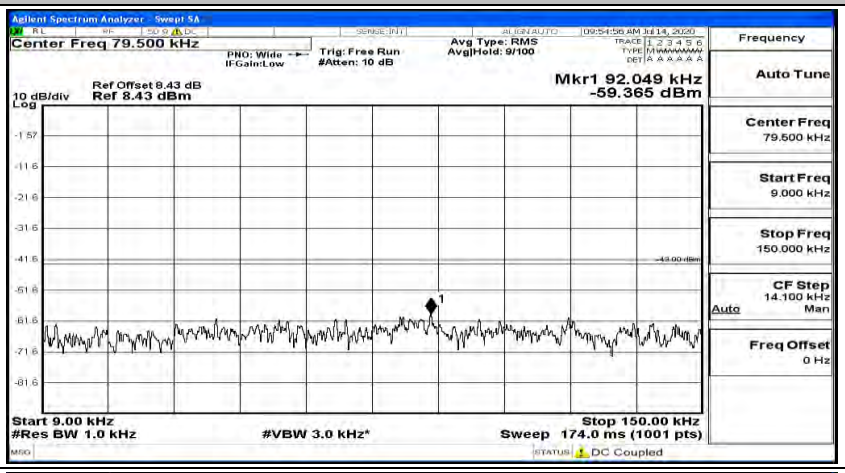


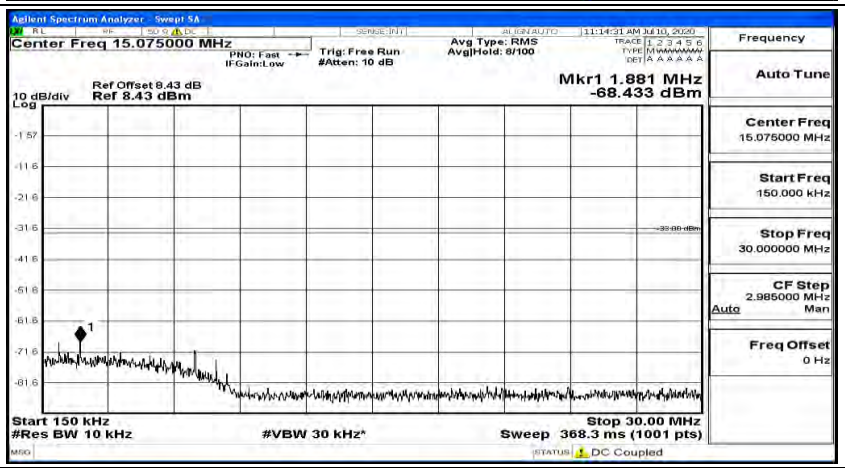
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

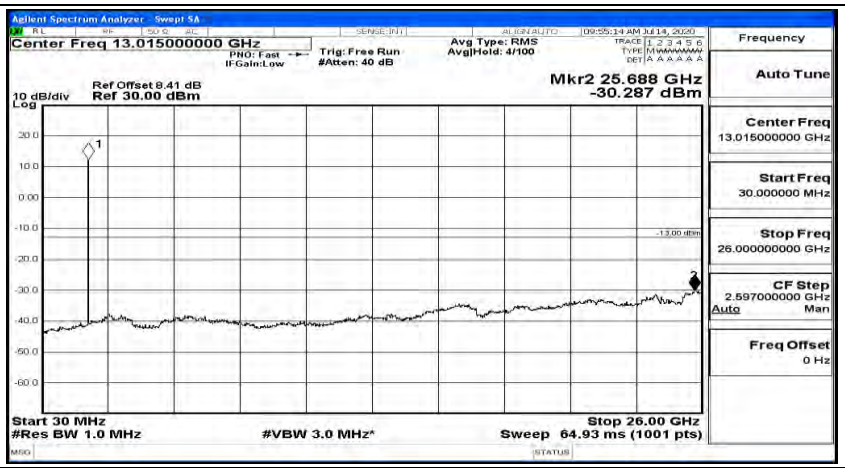




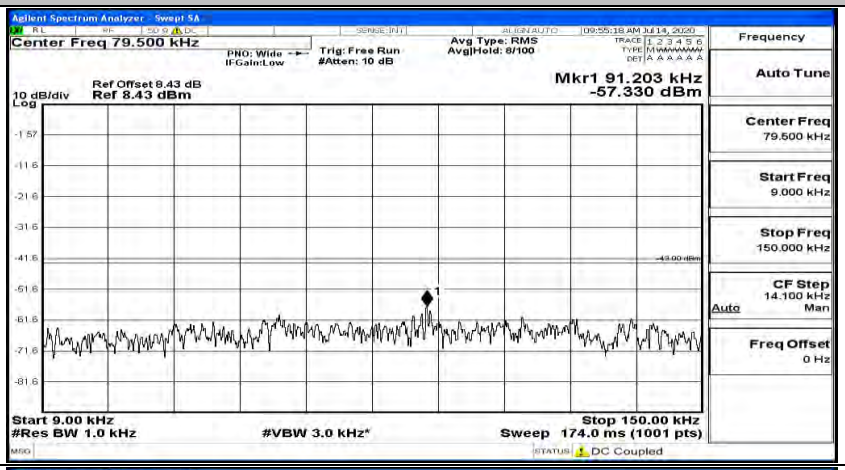
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

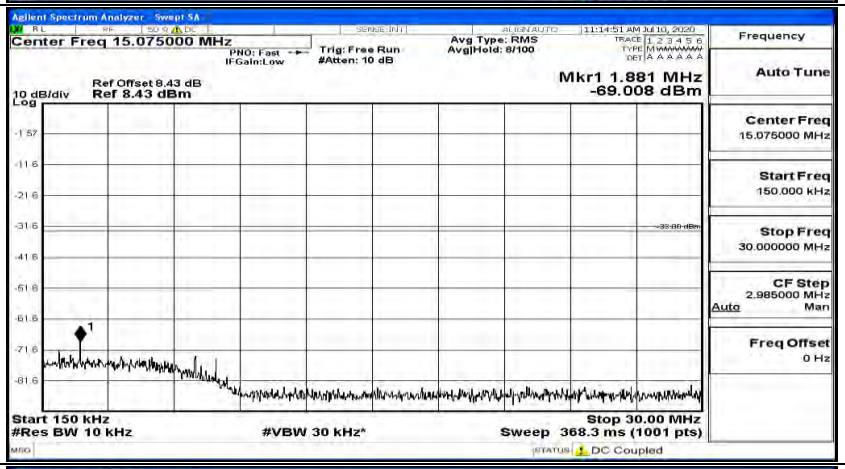




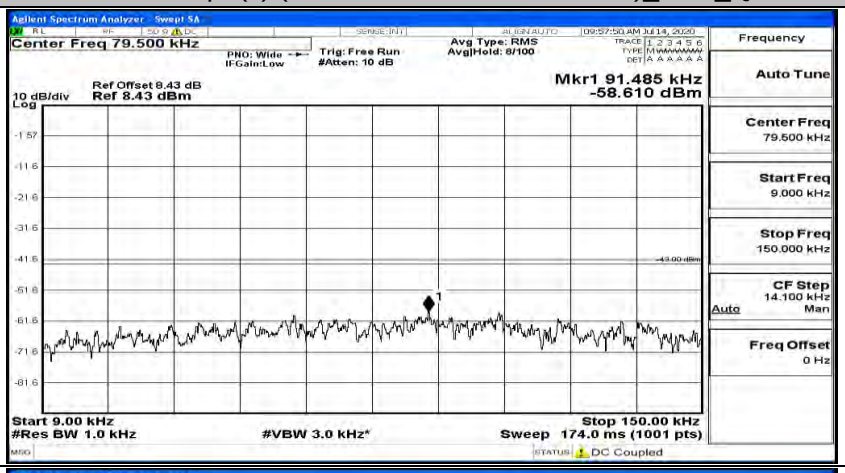


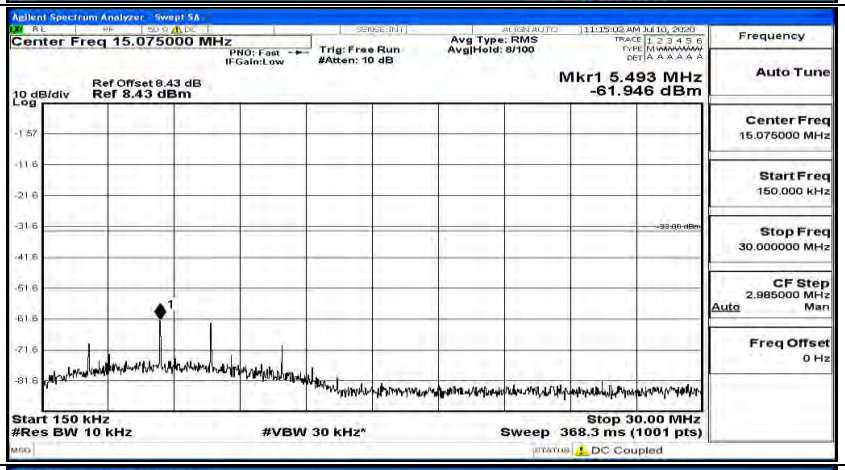
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

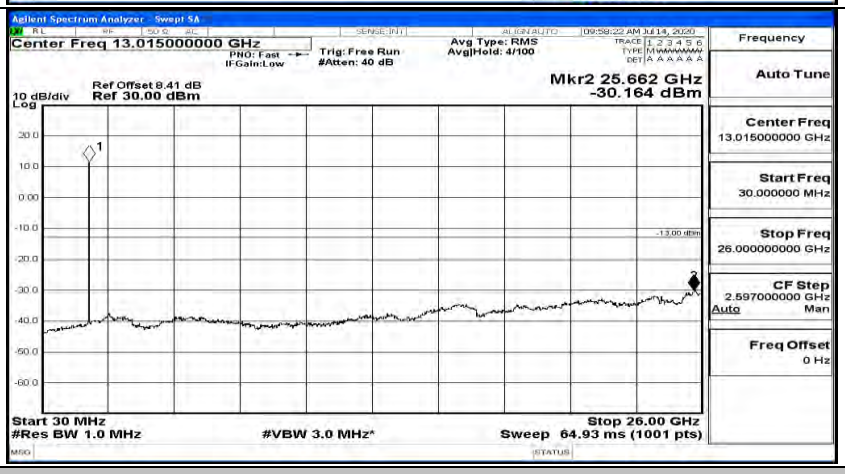




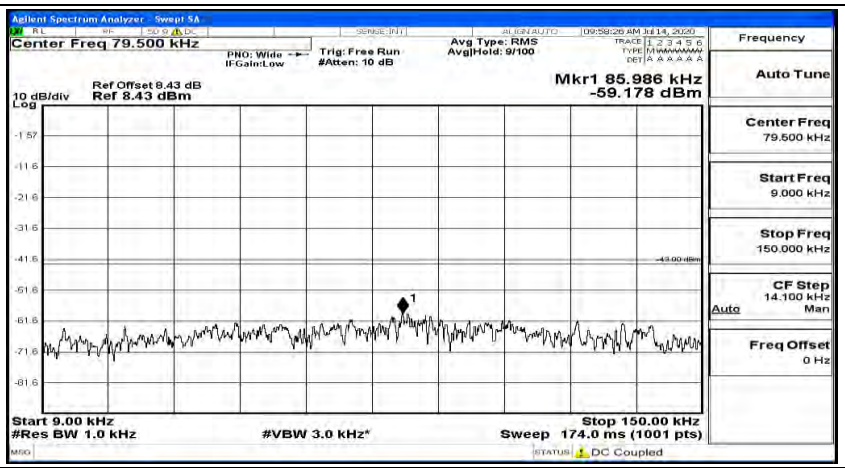
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK

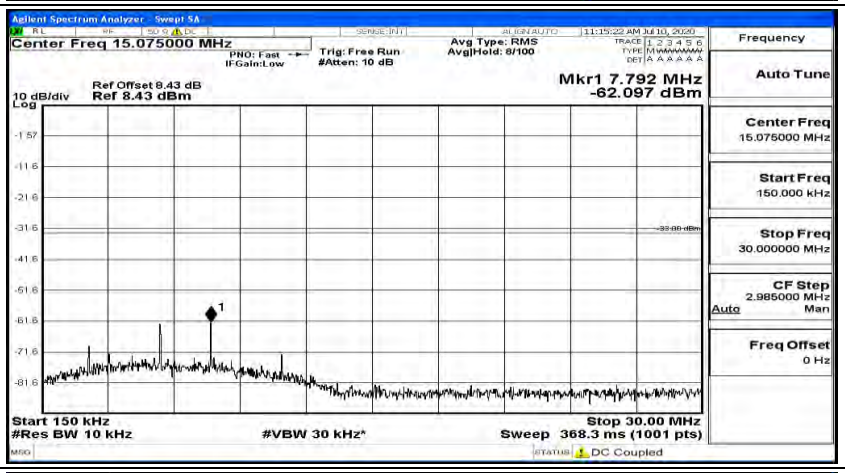


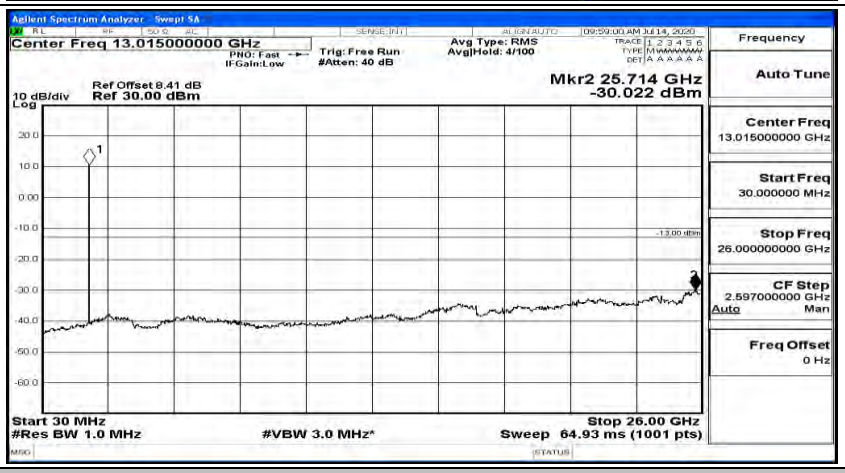




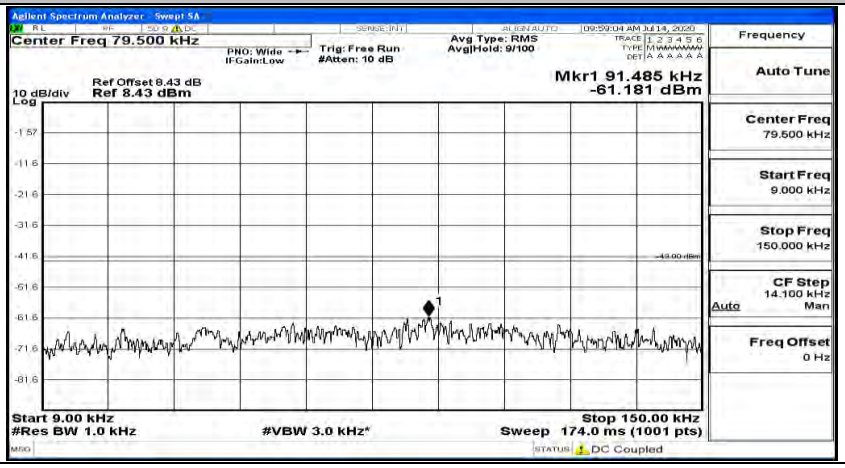
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK

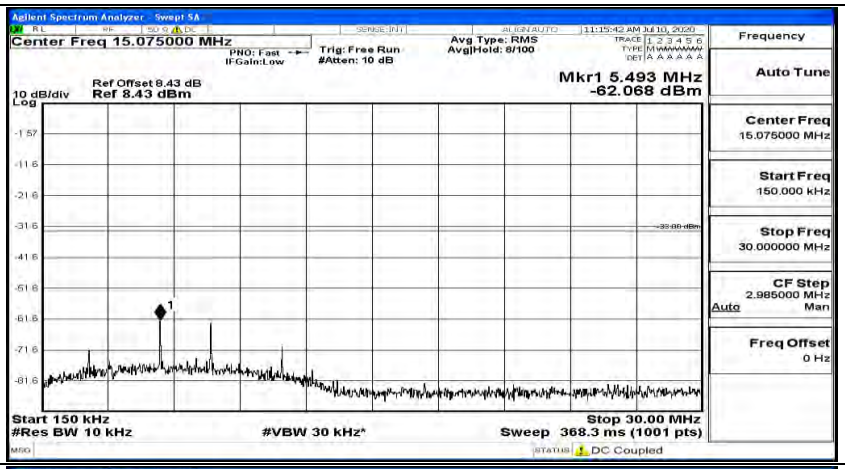






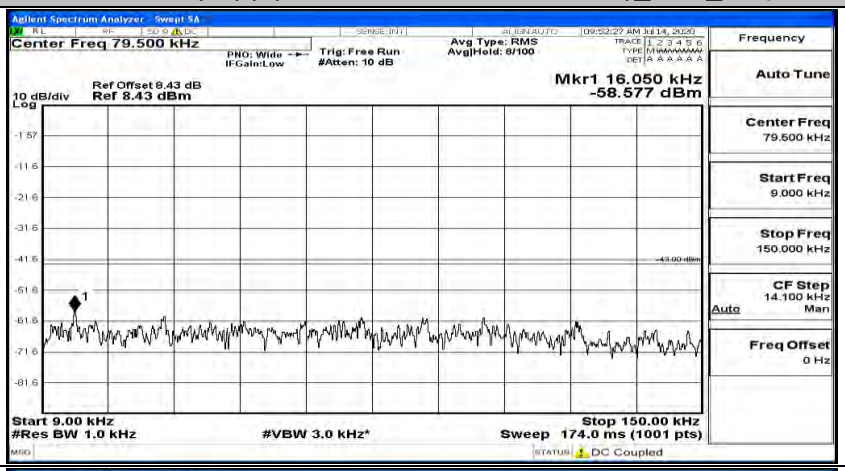
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK

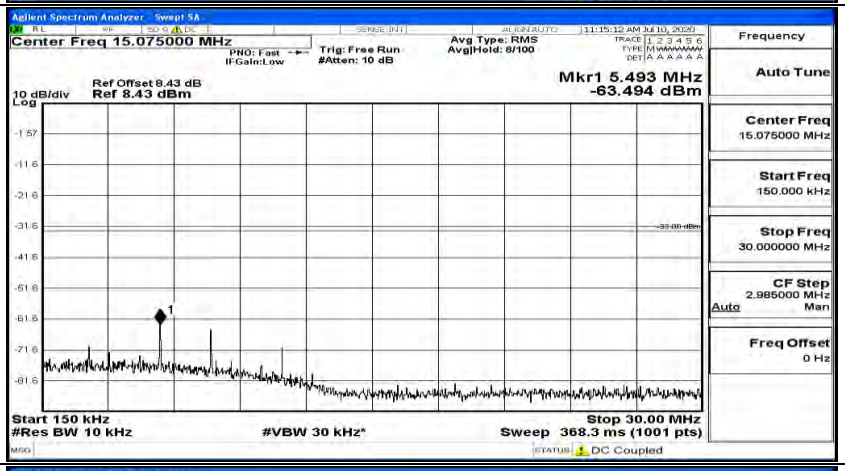



Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
11:15:42 AM Jul 10, 2020
Ref Offset 8.43 dB
10 dB/div
Ref 8.43 dBm
Log
Mkr1 5.493 MHz
-62.068 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

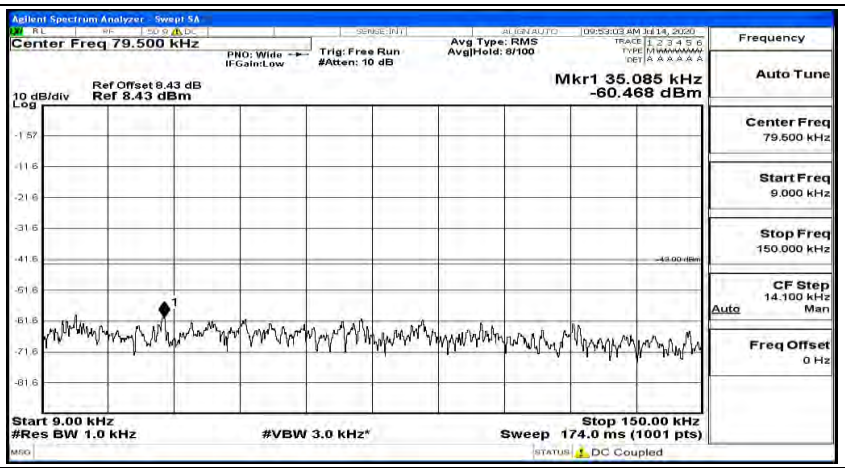
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 4/100
09:59:36 AM Jul 14, 2020
Ref Offset 8.41 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr2 25.740 GHz
-29.882 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

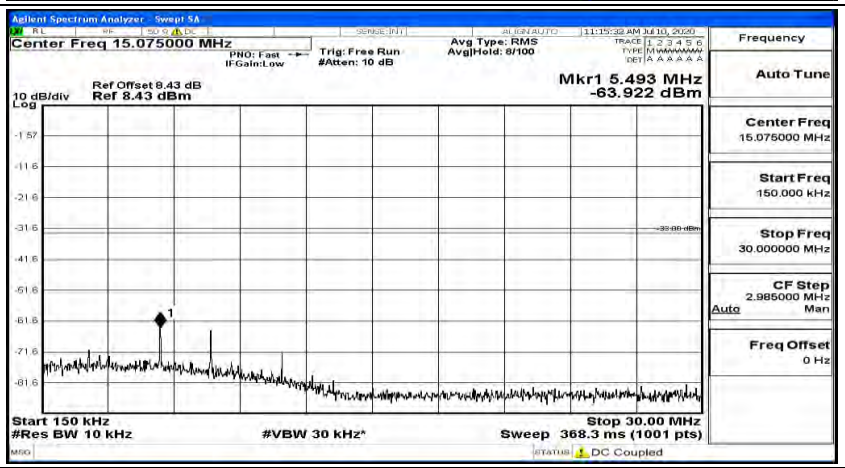
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM

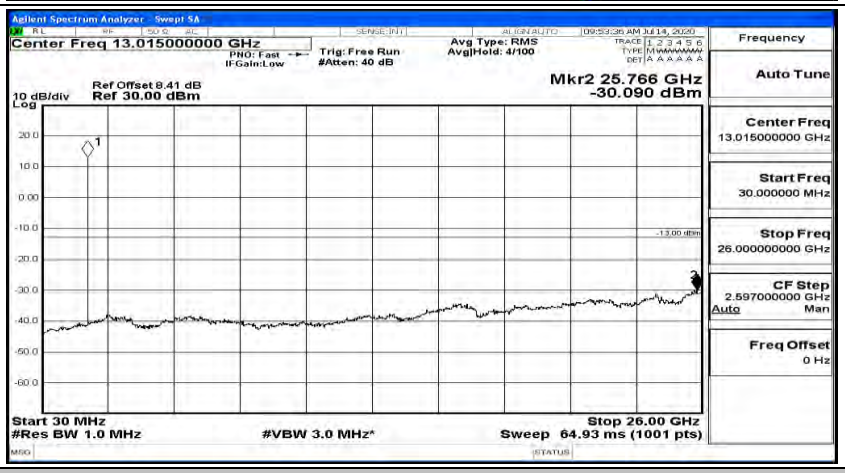




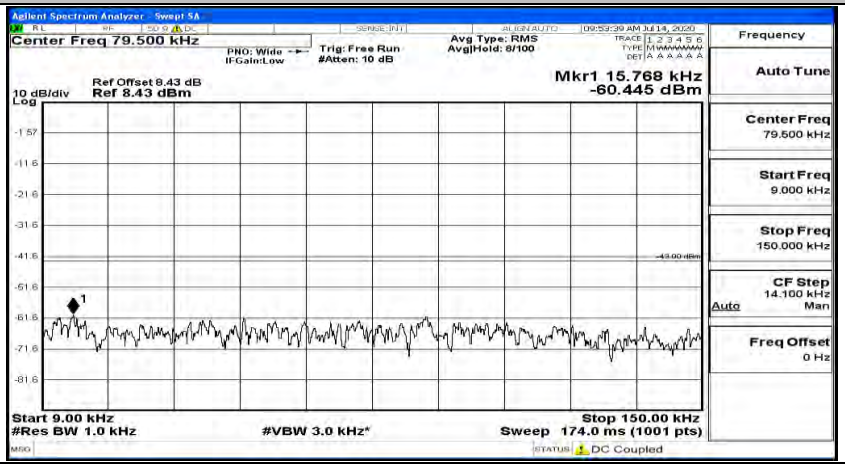
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM

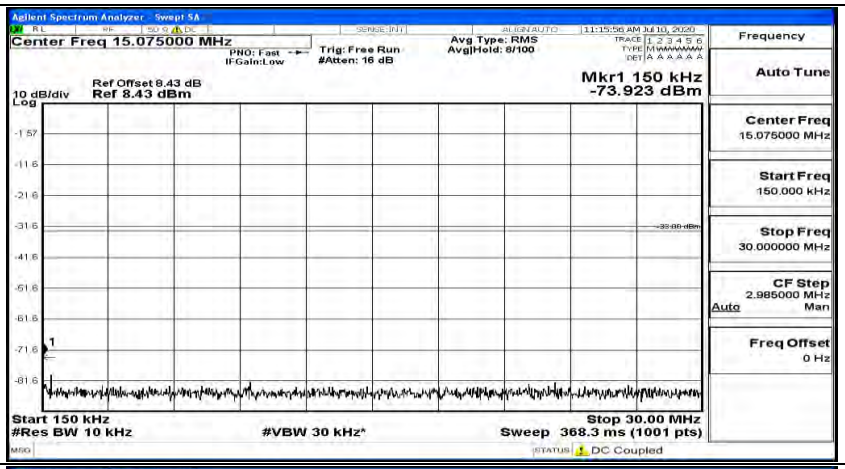






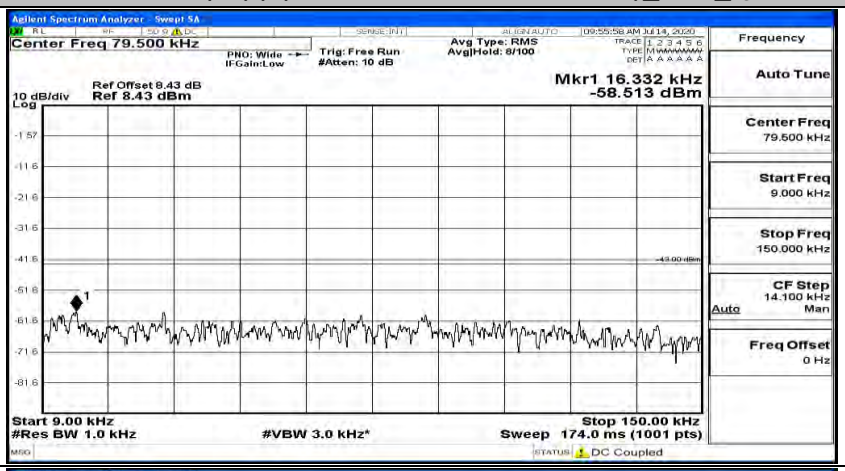
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM

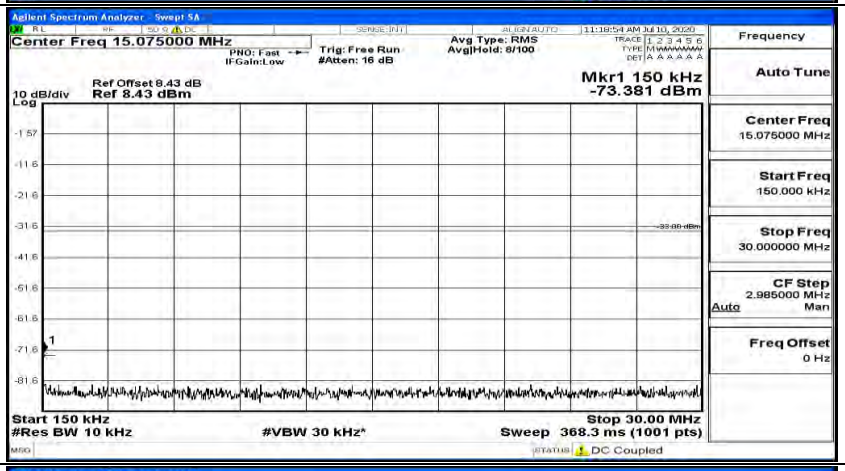



Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 8/100
11:15:56 AM Jul 10, 2020
Ref Offset 8.43 dB
10 dB/div
Ref 8.43 dBm
Log
Mkr1 150 kHz
-73.923 dBm
-1.57
-11.6
-21.6
-31.6
-41.6
-51.6
-61.6
-71.6
-81.6
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

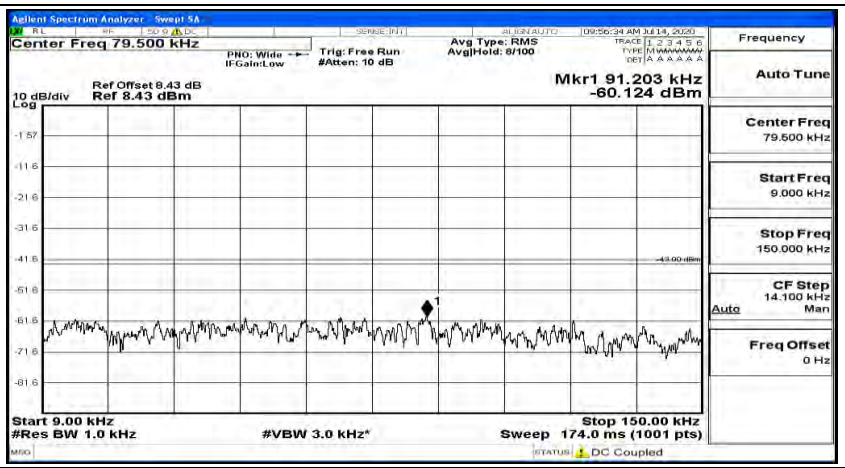
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 4/100
09:54:12 AM Jul 14, 2020
Ref Offset 8.41 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr2 25.740 GHz
-29.903 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

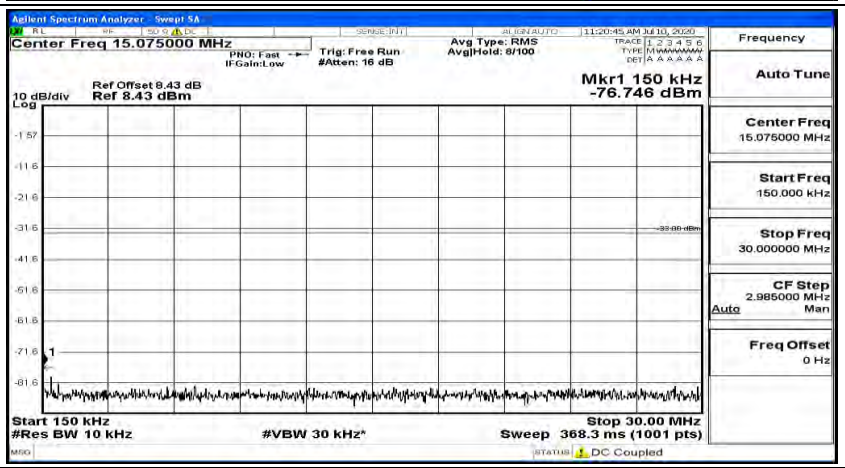
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK

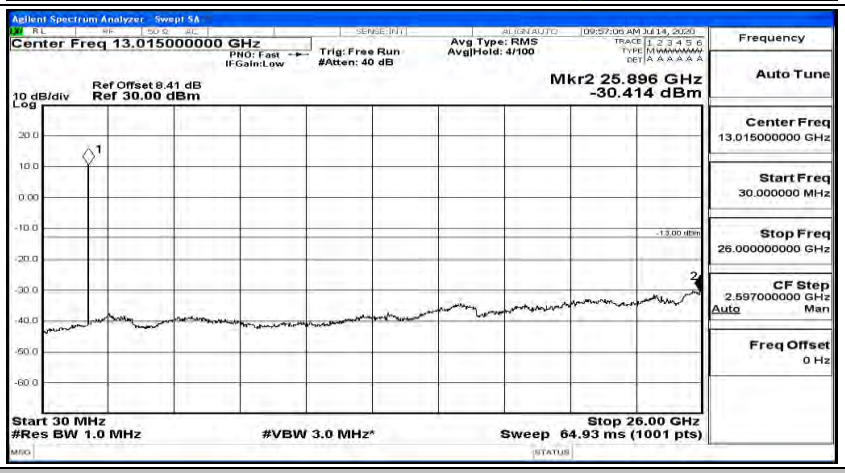




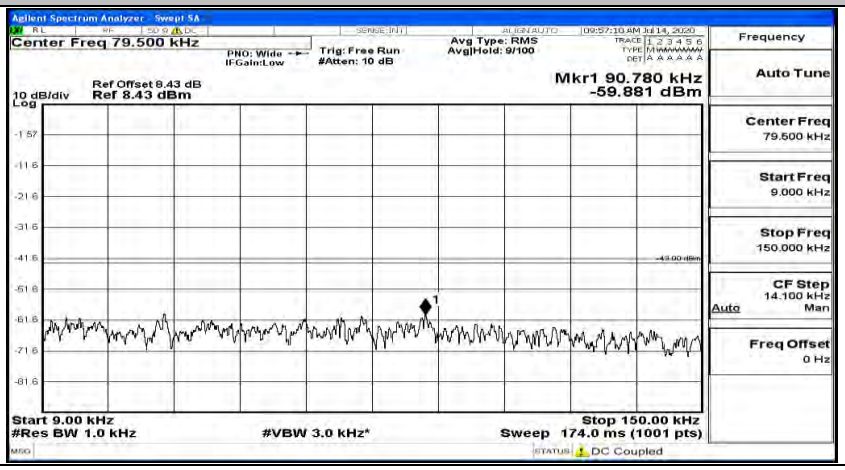
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK

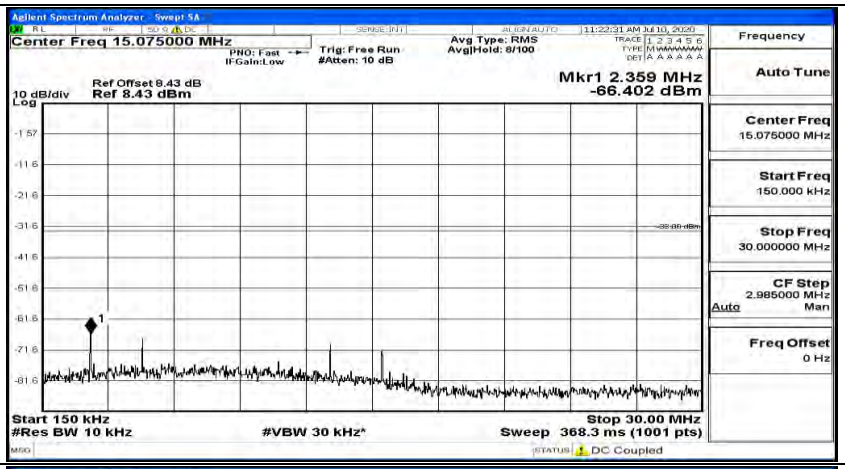


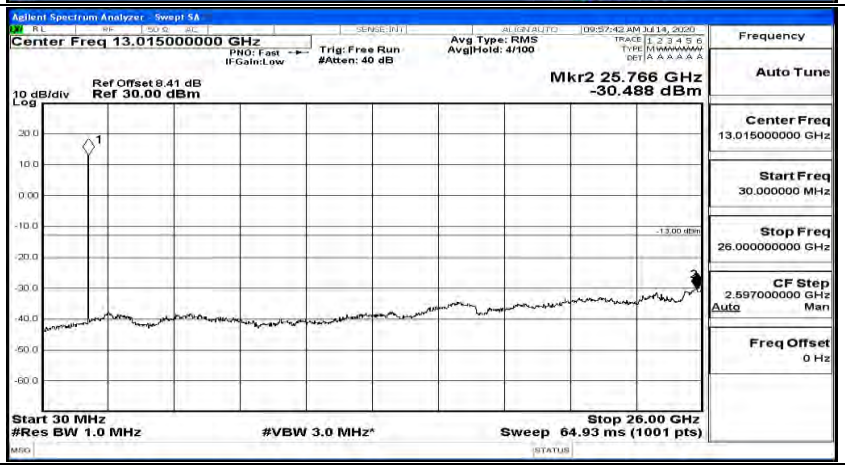




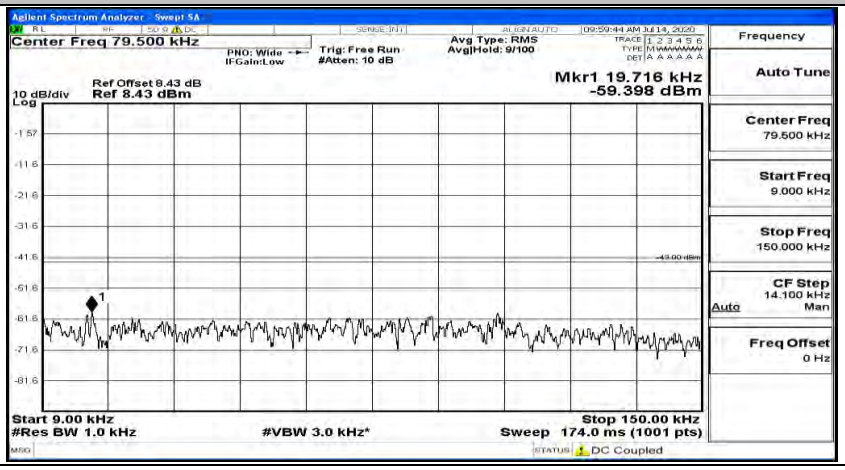
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK

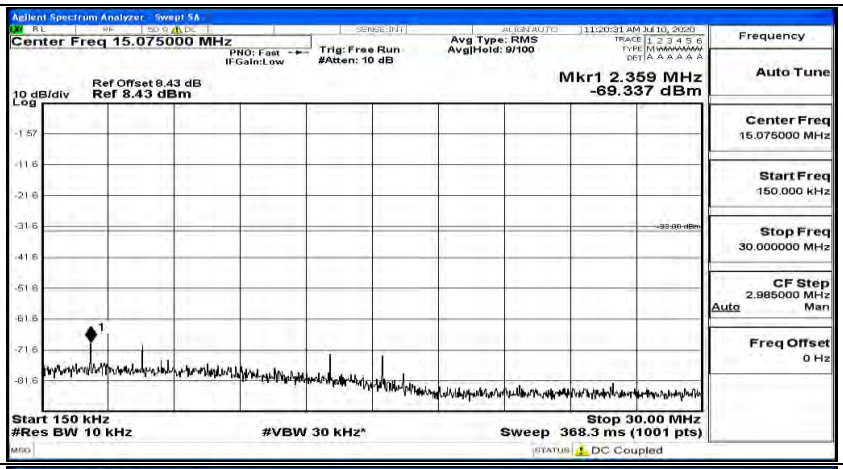




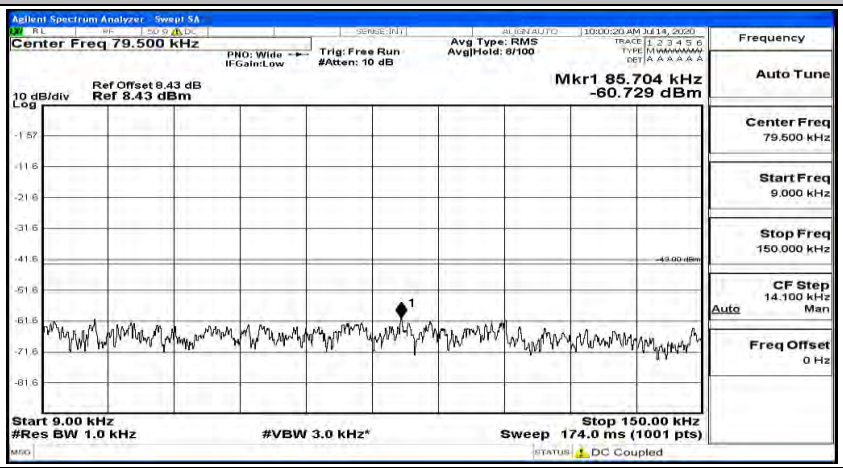


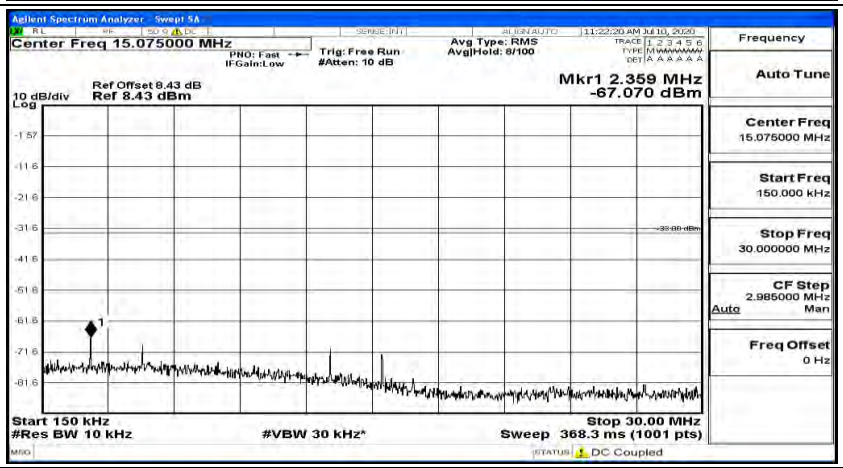
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM

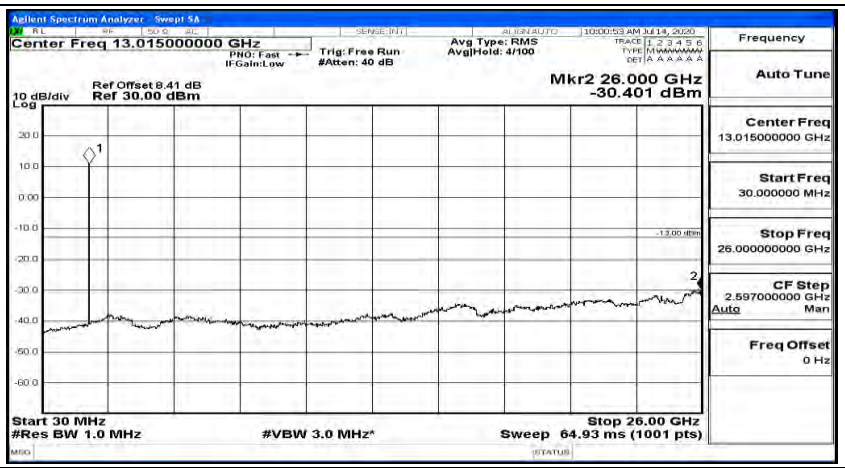
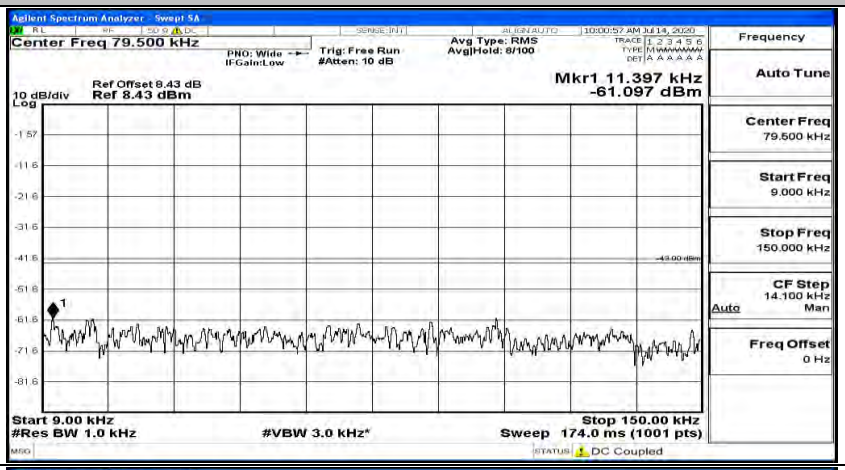
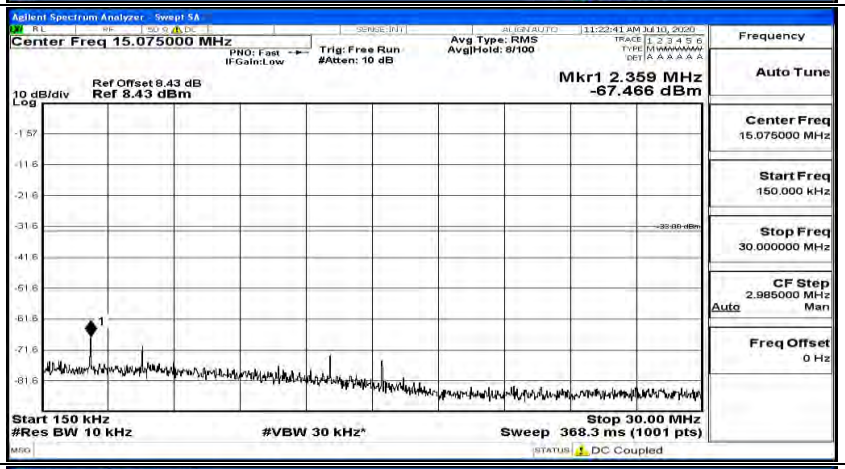




CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM







CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM